U.S. DEPARTMENT OF COMMERCE
National Technical Information Service
PB-289 547

Water Resources Data for New York
Water Year 1972. Part 2
Water Quality Records

(U.S.) Geological Survey, Albany, NY Water Resources Div

1973

PB 289547

1972

Water Resources Data for New York

Water Year 1972

Part 2. Water Quality Records

UNITED STATES
DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-72-2

Prepared in cooperation with the State of New York
and with other agencies

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

BIBLIOGRAPHIC DATA SHEET

1. Report No. USGS/WRD/HD-78/257

2.

3. Recipient's Accession No. PB289547

4. Title and Subtitle
Water Resources Data for New York
Water Year 1972
Part 2. Water Quality Records

5. Report Date 1973

6.

7. Author(s)

8. Performing Organization Rept. No. USGS-WDR-NY-72-2

9. Performing Organization Name and Address
U.S. Geological Survey, Water Resources Division
P.O. Box 1350
343 U.S. Post Office and Court House
Albany, NY 12201

10. Project/Task/Work Unit No.

11. Contract/Grant No.

12. Sponsoring Organization Name and Address
U.S. Geological Survey, Water Resources Division
P.O. Box 1350
343 U.S. Post Office and Court House
Albany, NY 12201

13. Type of Report & Period Covered
Annual Oct. 1, 1971 to Sept. 30, 1972

14.

15. Supplementary Notes
Prepared in cooperation with the State of New York and with other agencies.

16. Abstracts

Water resources data for the 1972 water year for New York consist of records of discharge and water quality of streams, and water quality of lakes and reservoirs. This report contains water quality for 105 gaging stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in New York.

17. Key Words and Document Analysis. 17a. Descriptors

*New York, *Hydrologic data, *Water quality, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water analyses.

17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group

18. Availability Statement No restriction on distribution.
This report may be purchased from:
National Technical Information Service
Springfield, VA 22161

19. Security Class (This Report) UNCLASSIFIED

20. Security Class (This Page) UNCLASSIFIED

21. No. of Pages 272

22. Price A12-A01

1972

Water Resources Data
for
New York
Water Year 1972

Part 2. Water Quality Records

MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-72-2

Prepared in cooperation with the State of New York
and with other agencies

Prepared in cooperation with

New York State Department of Environmental Conservation
New York State Department of Health
New York State Power Authority
Central New York State Parks Commission
County of Cortland, Planning Department
County of Dutchess
County of Nassau, Department of Public Works
County of Suffolk, Department of Environmental Control
County of Suffolk, Water Authority
City of Albany, Department of Water and Water Supply
City of New York, Board of Water Supply
City of New York, Department of Water Resources
Town of Warwick
Delaware River Basin Commission
Environmental Protection Agency
Atomic Energy Commission

Water resources records, 1972, for New York are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for New York
   Part 1: Surface Water Records

2. Water Resources Data for New York
   Part 2: Water Quality Records

Copies of this report may be obtained from:

District Chief, Water Resources Division
U.S. Geological Survey
U.S. Post Office and Court House
P. O. Box 948
Albany, N. Y. 12201

1973

CONTENTS

Page

List of water-quality stations, in downstream order, for which records are published with cross-reference of identification numbers........................... V-VI
Introduction.. 1
Cooperation... 1
Definition of terms and abbreviations....................... 2
Arrangement of data and identification numbers.............. 7
  Surface-water quality data................................ 7
  Ground-water quality data................................. 8
  Precipitation-quality data................................ 8
Special networks.. 9
Collection and examination of data.......................... 9
  Solutes... 10
  Temperature... 10
  Sediment.. 11
Other available data.. 12
Water-supply papers... 13
Selected references... 14
Water-quality records....................................... 24
  Surface-water... 24
    Stations.. 24
    Partial-record stations................................. 200
    Miscellaneous sites..................................... 208
      Spectrographic, pesticide and suspended-sediment analyses, June 29, 30, 1972; selected sites affected by tropical storm Agnes.................. 242
      Minor element analyses................................ 246
  Ground water.. 252
  Precipitation... 254
Index... 261

ILLUSTRATIONS

Figure 1. Sketch showing well- and spring-location system.................................... 8

2. Index for water-quality station maps.............. 16

3-9. Location of water-quality stations................ 17-23

TABLES

Page

Table 1. Factors for conversion of chemical constituents in milligrams per liter to milliequivalents per liter.................................. 4

2. Degrees Celsius (°C) to degrees Fahrenheit (°F)... 11

3. Water-supply paper numbers and parts, water years 1950-71......................... 13

4. New York State Water Quality Surveillance Stations for which water samples were analyzed by agencies other than the U.S. Geological Survey, 1972 water year..... 259

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED WITH A CROSS REFERENCE LIST OF IDENTIFICATION NUMBERS

Letters after station name
designate type of data reported
(c) - chemical
(t) - temperature
(s) - sediment

Abbreviations:
USGS - U.S. Geological Survey
OWDC - Office of Water Data Coordination
EPA - Environmental Protection Agency
WQS - New York State Water Quality Surveillance

		IDENTIFICATION NUMBERS				Page
		USGS	OWDC	EPA	WQS	
NORTH ATLANTIC SLOPE BASINS						
STREAMS ON LONG ISLAND						
Mill Neck Creek at Mill Neck (c)		01303000	19172			24
Carmans River at Yaphank (c)		01305000	19176			26
Massapequa Creek at Massapequa (c)		01309500	19185			28
East Meadow Brook at Freeport (c)		01310500	19187			30
HUDSON RIVER BASIN						
Hudson River:						
Schroon Lake (Schroon River) at Pottersville (c)		01316500	61392		11 P030	32
Loon Lake near Chestertown (c)		01316808	61393		11 P040	33
Friends Lake near Chestertown (c)		01316815	61394		11 P050	34
Brant Lake Outlet at Brant Lake (c)		01316895	61391		11 P020	35
Schroon River at Riverbank (c)		01317000	61395		11 1060	36
Sacandaga River:						
East Branch Sacandaga River at Griffin (c)		01319000	54061		11 2788	37
Sacandaga River at Hadley (c)		01325005	68092		11 1551	39
Hudson River at Corinth (c)		01325420	61400		11 0602	40
Hudson River at Spier Falls (c)		01326400	68091		11 0605	42
Hudson River at Glens Falls (c)		01327600			11 0580	44
Hudson River at Hudson Falls (t)		01327700	54111			45
Hudson River at Fort Edward (c)		01327750	68090		11 0561	46
Batten Kill at Middle Falls (c)		01329640	61398		11 1501	48
Kayaderosseras Creek (head of Fish Creek):						
Glowegee Creek near West Milton (ct)		01329995	65356			50
Glowegee Creek at West Milton (ct)		01330000	54112			52
Kayaderosseras Creek near West Milton (t)		01330500	54062			54
Hudson River at Stillwater (c)		01331095	68088		11 0005	56
Hoosic River near North Pownal, Vt. (c)		01333350	67090	50 1479	11 1432	58
Hoosic River at North Petersburg (c)		01333360	61397		11 1430	60
Hudson River at Waterford (c)		01335770	61387		11 0001	62
Hudson River at monitor at Waterford (c)		01335771	68089		11 0002	63
Mohawk River below Delta Dam, near Rome (t)		01336000	54063			65
Cayadutta Creek at Fonda (c)		01349520	68087		12 1301	66
Mohawk River at Fonda (c)		01349527	68084		12 0305	68
Schoharie Creek at North Blenheim (ct)		01350180				70
Schoharie Creek at Fort Hunter (c)		01353995	61401		12 1251	72
Mohawk River at Lock 10, at Cranesville (c)		01354160	61402		12 0300	74
Mohawk River at Schenectady (c)		01354490	61382		12 0005	76
Mohawk River at Vischer Ferry Dam (t)		01356000	54115		12 0003	78
Mohawk River at Crescent Dam (c)		01357000	61390		12 0002	80
Hudson River at Green Island (ct)	A	01358000	54065		13 0008	82
Hudson River at Glenmont (c)		01359560	61456		13 0200	84
Hudson River at Coeymans (c)		01359803	61455		13 0180	86
Hudson River at Catskill (c)		01361450	61454		13 0140	88
Esopus Creek at Shandaken (cts)		01362198	54068		13 1128	90
Rondout Creek:						
Wallkill River near Rosendale (c)		01372003	61452		13 2070	93
Rondout Creek at Eddyville (c)		01372005	68074		13 1071	94
Hudson River near Poughkeepsie (c)	B	01372043	61453		13 0103	95
Hudson River below Poughkeepsie (c)	C	01372058	67091	83 1055	13 0010	96
Wappinger Creek near Wappingers Falls (c)		01372500	54071		13 1050	97
Hudson River near Chelsea (c)		01372550	61451		13 0660	99
Hudson River at Beacon (c)		01372575	68075		13 0258	101
Fishkill Creek at Hopewell Junction (t)		01372800	54072			102
Fishkill Creek at Beacon (ct)	D	01373500	61449		13 1040	104
Moodna Creek near New Windsor (c)		01373860	68073		13 1252	107
Hudson River at Bear Mountain (c)		01374085	68081		13 0250	108
Hudson River at Verplanck (c)		01374350	68076		13 0256	109
Hudson River at Piermont (c)	E	01376269	68079		13 0254	111
Hudson River at Yonkers (c)		01376510	68080		13 0251	112
HACKENSACK RIVER BASIN						
Hackensack River near Orangeburg (c)		01376905	61460		15 0001	114
DELAWARE RIVER BASIN						
East Branch Delaware River (head of Delaware River):						
Beaver Kill at Cooks Falls (c)		01420500	54076		14 2108	116
East Branch Delaware River at Fishs Eddy (ct)		01421000	65360		14 1050	118
West Branch Delaware River at Stilesville (t)		01425000	54077			121
Oquaga Creek near North Sanford (ct)		01425675	26904			122
West Branch Delaware River at Hale Eddy (ct)		01426500	65359		14 0080	124
Delaware River near Callicoon (t)		01427405	65358			127
Delaware River above Lackawaxen River near Barryville (ct)		01428500	65357			128
Delaware River at Barryville (t)		01432160	65363			130
Delaware River at Port Jervis (cs)	F	01434000	61457		14 0010	131
Neversink River at Port Jervis (c)		01438000	68072		14 1032	135

A - Also assigned - OWDC 54066, WQS 13 0009
B - Also assigned - OWDC 54116
C - Also assigned - OWDC 55088
D - Also assigned - OWDC 54074
E - Also assigned - OWDC 56338
F - Also assigned - OWDC 54078

	IDENTIFICATION NUMBERS				
	USGS	OWDC	EPA	WQS	Page
NORTH ATLANTIC SLOPE BASINS--Continued					
SUSQUEHANNA RIVER BASIN					
Susquehanna River at Unadilla (c)	01500500	19299		06 0140	136
Chenango River:					
East Branch Tioughnioga River (head of Tioughnioga River):					
West Branch Tioughnioga River:					
Factory Brook at Homer (c)	01508800				138
West Branch Tioughnioga River at Homer (c)	01508803				139
Tioughnioga River at Cortland (t)	01509000	34085			140
Susquehanna River at C.F.J. Memorial Bridge at Johnson City (c)	01513107	67096	SUS2		141
Susquehanna River at Johnson City (t)	01513110	34086			143
Tioga River (head of Chemung River):					
Cohocton River:					
Fivemile Creek near Kanona (c)	01528000	34092		05 2098	144
Chemung River at Wellsburg (c)	01530900	67097	SUS1		146
OHIO RIVER BASIN					
Allegheny River (head of Ohio River):					
Conewango Creek at Waterboro (c)	03013000	34096		02 1018	148
ST. LAWRENCE RIVER BASIN					
Lake Erie:					
STREAMS TRIBUTARY TO LAKE ERIE					
Buffalo Creek at Gardenville (c)	04214500	34097		01 1108	150
Lake Ontario:					
STREAMS TRIBUTARY TO LAKE ONTARIO					
Eighteenmile Creek near Newfane	04219765	73495	353600		152
Johnson Creek at Kuckville (c)	04219915		353612		134
Genesee River:					
Black Creek at Churchville (c)	04231000	34100		04 1108	156
Genesee River at Rochester (ct)	G 04232000	34101		04 0003	158
Seneca River (head of Oswego River):					
Owasco Outlet below Auburn (c)	04235505		354305		160
Seneca River at Baldwinsville (ct)	04237500	34102		07 1020	162
Salmon River below Pulaski (c)	04250504		355905		164
Black River at Forestport (c)	04250997	73498	355138		166
Independendence River at Donnattsburg (ct)	04256000	34103			168
Beaver River at Moshier Falls (t)	04257150	34120			170
Black River above Carthage (c)	04258710	73499	355114		171
Black River below Carthage (c)	04258750	73500	355102		173
Black River at Huntingtonville (t)	04259980	67093			175
Black River at State Highway 3 at Watertown (c)	H 04260100	61441	11401	08 0005	176
Black River at Watertown (c)	04260500	34104		08 0008	178
Black River below Watertown (c)	04260505	73501	355112		180
ST. LAWRENCE RIVER (MAIN STEM)					
St. Lawrence River at Cape Vincent (c)	04260712	61428		09 0030	182
St. Lawrence River at Alexandria Bay (t)	04260800	34121			183
Oswegatchie River at Gouverneur (c)	04262650	67094	355507		184
Oswegatchie River at Ogdensburg (c)	04263990	61442		09 1300	186
St. Lawrence River at Cornwall, Ontario-near Massena, N.Y. (t)	04264331	34108			187
Grass River above Massena (c)	04265437			09 1203	188
Grass River below Massena Center (c)	04265452			09 1206	189
Raquette River at Massena Springs (c)	04268230	61443		09 1105	190
St. Regis River:					
Deer River at Brasher Iron Works (c)	04269500	34109		09 2428	191
Lake Champlain (main stem Richelieu River):					
Saranac River above Plattsburgh (c)	04273400	61426		10 1010	193
Ticonderoga Creek at Ticonderoga (c)	04279015	68093		10 1050	194
Lake Champlain (East Bay) near Whitehall (c)	04294402	67087	831056		196
Lake Champlain near Ticonderoga (c)	04294408	67088	831057		197
Lake Champlain near Crown Point (c)	04294410	67089	831058		198
Richelieu River (Lake Champlain) at Rouses Point (c)	04295000	61435		10 L002	199
PRECIPITATION-QUALITY STATIONS					
Long Island:					
at Mineola (c)					254
at Upton (c)					254
Hudson River basin:					
at Rock Hill (c)					255
near Albany (c)					255
at Hinckley (c)					256
Susquehanna River basin:					
near Athens, Pa. (c)					256
Allegheny River basin:					
at Allegany State Park (c)					257
Lake Ontario basin:					
at Mays Point (c)					257
St. Lawrence River basin:					
near Canton (c)					258

G - Also assigned - OWDC 68117
H - Also assigned - OWDC 68239

WATER RESOURCES DATA FOR NEW YORK, 1972

Part 2. Water Quality Records

INTRODUCTION

Water resources data for the 1972 water year for New York include records of data for the chemical and physical characteristics of surface, ground, and precipitation water. The records were collected by the Water Resources Division of the U.S. Geological Survey under the direction of R. J. Dingman, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

The Geological Survey has published records of chemical quality, suspended sediment, and water temperatures since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records also have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. These records will be published later in Geological Survey water-supply papers.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreements with the following organizations:

New York State Department of Environmental Conservation,
  Henry L. Diamond, commissioner; Dwight E. Metzler,
  deputy commissioner, Environmental Quality
New York State Department of Health, H. S. Ingraham, commissioner
New York State Power Authority, J. A. Fitzpatrick, chairman
Central New York State Parks Commission, Samuel Perry,
  regional director
County of Cortland, Planning Department, E. T. Jones, director
County of Dutchess, W. H. Bartles, county executive
County of Nassau, Department of Public Works, J. H. Peters,
  commissioner
County of Suffolk, Department of Environmental Control,
  J. M. Flynn, commissioner
County of Suffolk, Water Authority, W. C. Hazlett, chairman
City of Albany, Department of Water and Water Supply,
  W. F. Devane, commissioner
City of New York, Board of Water Supply, V. G. Terenzio,
  chief engineer

City of New York, Department of Water Resources, Martin Lang, commissioner, Abraham Groopman, chief engineer
Town of Warwick, C. B. Rowe, supervisor
Delaware River Basin Commission, J. F. Wright, executive director

Assistance in the form of funds was given by the Atomic Energy Commission and by the Environmental Protection Agency. Three surface-water quality stations were operated from funds appropriated directly to the Geological Survey.

The following organizations and individuals supplied water-temperature records:

The municipalities of Cortland and Watertown, Chase Bag Company, New York State Electric and Gas Corporation, Niagara Mohawk Power Corporation, Rochester Gas and Electric Corporation, Texaco Incorporated, Power Authority of the State of New York, New York State Department of Transportation, Corps of Engineers, U.S. Army, and Mr. Douglas F. Manning.

DEFINITION OF TERMS AND ABBREVIATIONS

Definition of terms and abbreviations related to water-quality and hydrologic data, as used in this report are defined as follows:

Acre-foot (ac-ft, AC-FT) is a quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 gallons.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stablizing decomposable organic matter under aerobic conditions.

Bottom deposits (bottom material) The sediment mixture of which the streambed is composed.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24-hours. It is equivalent to 86,400 cubic feet, 1.983471 acre-feet, or 646,317 gallons.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds present in a water and varies with water compositions, temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate incubation membrane filter method.

Cubic foot per second (cfs, CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Daily mean discharge is the mean discharge for one day.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time. This discharge is reported in the tables in the column headed "Discharge (CFS)."

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per kilogram (μg/kg, UG/KG) A microgram is equal to 0.000001 gram or 10^{-6} gram; a kilogram is approximately the mass of a liter of water at 4°C above the freezing point (one kilogram equals 1,000 grams); therefore, 1 μg/kg = 10^{-6} grams/1,000 grams.

Micrograms per liter (μg/l, UG/L) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (liter) of solution. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1. Concentration of suspended sediment is also expressed in mg/l, and is based on the weight of sediment per liter of water-sediment mixture.

Table 1.--Factors for conversion of chemical constituents in milligrams per liter to milliequivalents per liter

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})....	0.11119	Iodide (I^{-1})......	0.00788
Ammonia as NH_4^{+1} ...	.05544	Iron (Fe^{+3}).......	.05372
Barium (Ba^{+2})......	.01456	Lead (Pb^{+2}).......	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})....	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})..	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2}).....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})....	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})......	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})......	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})..	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2}).......	.03060

To convert micrograms per liter, multiply by factor and divide by 1,000.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Pesticides include insecticides and herbicides.

Insecticides are substances or a mixture of substances intended to control, destroy, or repel insects.

Herbicides are substances or a mixture of substances intended to control or destroy any vegetation.

PCB (Polychlorinated biphenyls) Industrial chemicals composed of mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in chemical structure to organocloride insecticides.

Picocuries/l (PCi/l, PC/L) The curie (Ci) is the official unit of radioactivity defined as exactly 3.70×10^{10} disintegrations per second and is nearly equivalent to that exhibited by one gram of radium in equilibrium with its disintegration products (pico is a prefix meaning 10^{-12} unit).

Sediment is solid material that orginates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quanity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour period.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph or a digital mechanism that automatically records water temperature on paper tape.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1972, is called the "1972 water year."

ARRANGEMENT OF DATA AND IDENTIFICATION NUMBERS

Data in this report are divided into three groups: quality of surface water, of ground water, and of precipitation.

Surface-Water Quality Data

Surface-water quality data collected on a regular or continual basis are listed first. These are reported in downstream order along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention; each indention represents one rank. Figures 3-9 show the general location of the listed stations. Data for partial-record and miscellaneous surface-water sites are placed in downstream order following the first section.

As an added means of identification, a number has been assigned for each surface-water location where determinations of water quality have been made. The numbers increase with the standard downstream order of listing gaging stations. The numbering system consists of eight digits; for example, 01330000. The first two digits identify the Part or Major basin used by the Geological Survey for reporting hydrologic data. The remaining six digits represent the position of the location in the standard downstream order listing the stations within each of the Parts. The assigned numbers are in increasing numerical order but are not consecutive. They are selected from the complete 8-digit number scale so that intervening numbers will be available for future assignment to new locations. The identification number for each site in this report is printed to the left of the site name.

The Geological Survey identification numbers are cross-referenced in the list of Water-Quality Stations on pages V-VI, with identification numbers assigned by the Federal Environmental Protection Agency and the New York State Department of Environmental Conservation, Water Quality Surveillance for stations in their networks and by the Office of Water Data Coordination for their catalog of Information on Water Data.

Ground-Water Quality Data

Ground-water quality data are grouped alphabetically by county and by well number within the county. The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 15 digits. The first 13 digits of the well number are the coordinates of the southeast corner of the 1-second grid in which the well is located. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote the degrees, minutes, and seconds of longitude. If the well site is directly on the dividing line of the grid, the coordinates are those of the intersecting line south of the point on a vertical line or east of the point on a horizontal line. (See fig. 1.) The last 2 digits of the well number are sequential numbers for wells within the 1-second grid. The first well in the 1-second grid from which a record is obtained is given the number 1. Each subsequent well is numbered in the order records were obtained. The system provides the geographic location of the well and a unique number for each well.

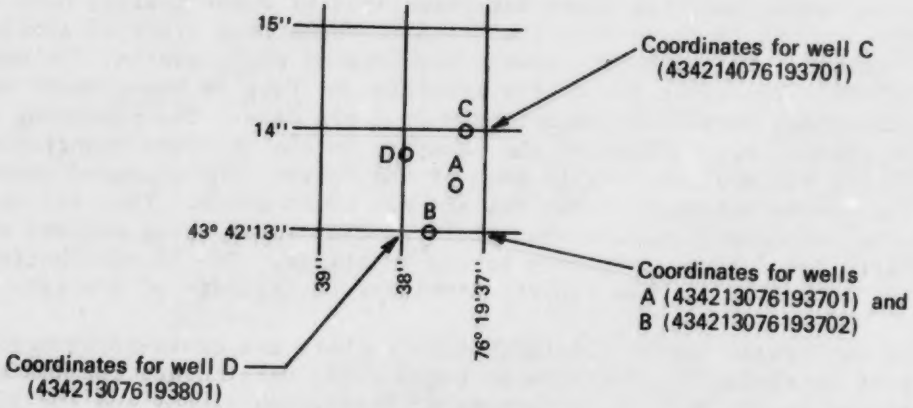

15''
14''
43° 42'13''
39''
38''
76° 19'37''
C
D
A
B
Coordinates for well C
(434214076193701)
Coordinates for wells
A (434213076193701) and
B (434213076193702)
Coordinates for well D
(434213076193801)

Figure 1.--Well-and spring-location system.

Precipitation Quality Data

Chemical quality of precipitation data are reported for eight stations in New York and for one station just over the border in Pennsylvania (fig. 3-9). The arrangement of the stations is according to the downstream order of the basins. Within the basin, the order of reporting is by latitude and longitude.

SPECIAL NETWORKS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimes will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

COLLECTION AND EXAMINATION OF DATA

Chemical, microbiological, water temperature, and fluvial-sediment water-quality information is presented. Chemical quality includes concentrations of individually dissolved constituents and certain properties or characteristics such as hardness of water, specific conductance, and pH. Microbiological information includes quantitative identification of certain bacteriological indicator organisms.

Many surface-water samples for analyses are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in New York have been released in the report, "Water Resources Data for New York, 1972, Part 1. Surface Water Records." The water discharge reported with analyses in this report, labeled "Discharge (cfs)," is instantaneous water discharge at the time of sampling. Instantaneous water discharge is determined from the stage-discharge relationship at gaging stations or by measurement at the time of sampling.

The data for regularly sampled stations in this report include a description of the sampling station and tabulations of the samples analysed. The description of the sampling station gives location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data and general remarks, in a format similar to that used for streamflow gaging stations.

Ground-water samples, whose analyses are included in this report, were collected as part of project or basin studies by the U.S. Geological Survey. Additional information on the source of these samples can be obtained from the District office, Albany, N.Y.

Precipitation samples were collected at or near National Weather Service stations and the quantity of precipitation, when reported, is from their records.

Solutes

The methods of collecting and analyzing water samples for determining the kinds and the concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). Samples, whose results are given in this report, are individual samples that generally were collected by depth integration at one vertical cross section in the stream.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm). In October 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per liter (mg/l). In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements and some pollutants, in micrograms per liter (μg/l) instead of milligrams per liter. (See "Definitions of Terms").

Temperature

Water temperatures at the time of sample collection are reported for many of the surface-water samples.

At several stations local observers measure the water temperature once or twice daily. These water temperatures are measured at about the same time each day so that the data will reflect long-term rather than diurnal variations in water temperature. Most large streams have small diurnal variation in water temperature; small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges. The thermometers used for determining the water temperature were accurate to plus or minus 0.5°C.

In addition, at several stations instruments are installed which record the water temperature continuously. Maximum and minimum temperatures for each day are obtained from these records.

Since October 1967 water temperatures have been reported in degrees Celsius (centigrade, °C). To convert temperature in degrees Celsius to degrees Fahrenheit see table 2, below.

Table 2.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*

°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86
0.5	33	10.5	51	20.5	69	30.5	87
1.0	34	11.0	52	21.0	70	31.0	88
1.5	35	11.5	53	21.5	71	31.5	89
2.0	36	12.0	54	22.0	72	32.0	90
2.5	36	12.5	54	22.5	72	32.5	90
3.0	37	13.0	55	23.0	73	33.0	91
3.5	38	13.5	56	23.5	74	33.5	92
4.0	39	14.0	57	24.0	75	34.0	93
4.5	40	14.5	58	24.5	76	34.5	94
5.0	41	15.0	59	25.0	77	35.0	95
5.5	42	15.5	60	25.5	78	35.5	96
6.0	43	16.0	61	26.0	79	36.0	97
6.5	44	16.5	62	26.5	80	36.5	98
7.0	45	17.0	63	27.0	81	37.0	99
7.5	45	17.5	63	27.5	81	37.5	99
8.0	46	18.0	64	28.0	82	38.0	100
8.5	47	18.5	65	28.5	83	38.5	101
9.0	48	19.0	66	29.0	84	39.0	102
9.5	49	19.5	67	29.5	85	39.5	103

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples are commonly collected at a fixed point in the stream cross section. Periodically, samples are collected at several verticals in the cross section to determine the adjustment coefficient required (if any) to determine the mean concentration in the whole cross section of the stream.

During periods of rapidly changing flow or rapidly changing concentration, samples often are collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, the daily sediment discharge was estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and sediment discharge for other periods of similar water discharge.

Suspended-sediment samples were collected periodically at the Hydrologic Bench-mark Station. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relationships between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

OTHER AVAILABLE DATA

In addition to most of the data in this report, which represent only those stations for which water samples were analysed by the U.S. Geological Survey, other data are available from WQS (Water Quality Surveillance) of the New York State Department of Environmental Conservation. Their Water Quality Data Library includes prior records for many of the stations in this report, data for additional stations operated by or for WQS, and data contributed by other Federal, State, and local agencies, and private industries. Table 4 is a list of stations operated by or for WQS. Water samples collected at these stations during the 1972 water year were analysed by agencies other than the U.S. Geological Survey.

All data in the Water Quality Data Library are available as computer printouts for the requested individual or groups of stations for individual or groups of parameters. Statistical summaries of the data are also available as computer printouts or in periodic publications. Inquiries for these data should be directed to:

New York State Department of
Environmental Conservation
Water Quality Surveillance
50 Wolf Road
Albany, New York 12201

EPA (Environmental Protection Agency) is another source of water-quality data. Data for several stations operated by the U.S. Geological Survey for this Federal agency are included in this report. However, data prior to that indicated in the "Period of Record" for some stations and data for many other locations are available through the EPA Data Storage and Retrieval system (STORET). Inquiries for New York water-quality data in the EPA system should be directed to:

Environmental Protection Agency
Water Quality Office
26 Federal Plaza
New York, New York 10007

A source of information on the availability of additional water-quality data is the "Catalog of Information on Water Data" which can be obtained from:

Office of Water Data Coordination
U.S. Geological Survey
Reston, Virginia 22092

WATER-SUPPLY PAPERS

The table below lists the annual series of water-supply papers that give information of quality of surface waters in New York. Data for the North Atlantic slope basins are given in part 1; for the Ohio River basin, in part 3; and for the St. Lawrence River basin, in part 4.

Table 3.--Water-supply paper numbers and parts, water years 1950-71

Year	Parts 1-4	Year	Parts 1-2	Parts 3-4	Year	Part 1	Part 3	Parts 4-5
1950	1186	1959	1641	1642	1968	2091	2093	2094
1951	1197	1960	1741	1742	1969	a2141	a2143	a2144
1952	1250	1961	1881	1882	1970	a2151	a2153	a2154
1953	1290	1962	1941	1942	1971	a2161	a2163	a2164
1954	1350	1963	1947	1948				
1955	1400	1964	1954	1955				
1956	1450	1965	1961	1962				
1957	1520	1966	1991	1992				
1958	1571	1967	2011	2012				

a In press.

SELECTED REFERENCES

American Public Health Association, and others, 1971, Standard methods for the examination of water and wastewater (13th ed.): New York, Am. Public Health Assoc., 874 p.

Benedict, P. C., 1948, Determination of the suspended sediment discharge of streams, Federal Interagency Sedimentation Conference, 1st, Denver, Colo., May 6-8, 1947, Proc.: Washington, D.C., U.S. Bur. Reclamation, p. 55-67.

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.

Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.

Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.

_____, 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 57 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water (2d ed.): U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Lane, E. W., and others, 1947, Report of subcommittee on sediment terminology: Am. Geophys. Union Trans., v. 28, no. 6, p. 936-938.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

SELECTED REFERENCES

U.S. Geological Survey, Office of Water Data Coordination, 1973, Station listings for part A, Streamflow and stage; part 2, Quality of surface water; and part 3, Quality of ground water (1972 ed.). Three regional reports as follows:

Water Resources, Region 02 (Middle Atlantic), 197 p;
Water Resources, Region 04 (Great Lakes), 147 p; and
Water Resources, Region 05 (Ohio), 213 p.

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams: Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.

_____1957, The development and calibration of visual accumulation tube: Rept. 11.

_____1957, Some fundamentals of particle size analysis: Rept. 12.

_____1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.

_____1961, The single stage sampler for suspended sediment: Rept. 13.

_____1963, Determinations of Fluvial sediment discharge: Rept. 14.

_____1963, A summary of work of the Inter-agency sedimentation project: Rept. S.

Woodard, T. H., and Heidel, S. G., 1964, Inventory of published and unpublished chemical analyses of surface waters in the continental United States and Puerto Rico, 1961: U.S. Geol. Survey Water-Supply Paper 1786, 490 p.

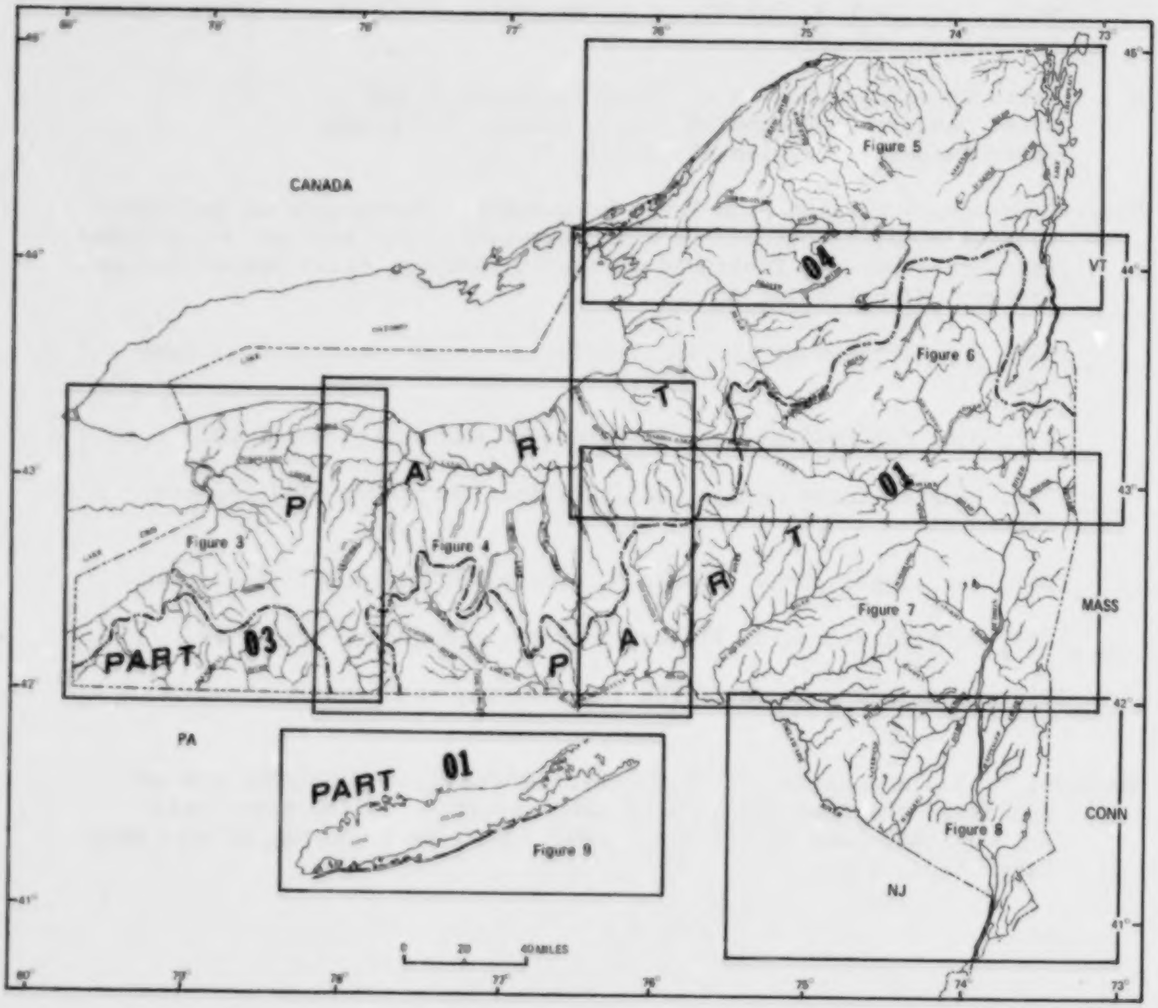

CANADA
VT
MASS
CONN
NJ
PA
Figure 3
Figure 4
Figure 5
Figure 6
Figure 7
Figure 8
Figure 9
PART 03
PART 04
PART 01
PART 01
0 20 40 MILES
80°
79°
78°
77°
76°
75°
74°
73°
45°
44°
43°
42°
41°

Figure 2.--Index for water-quality station maps.

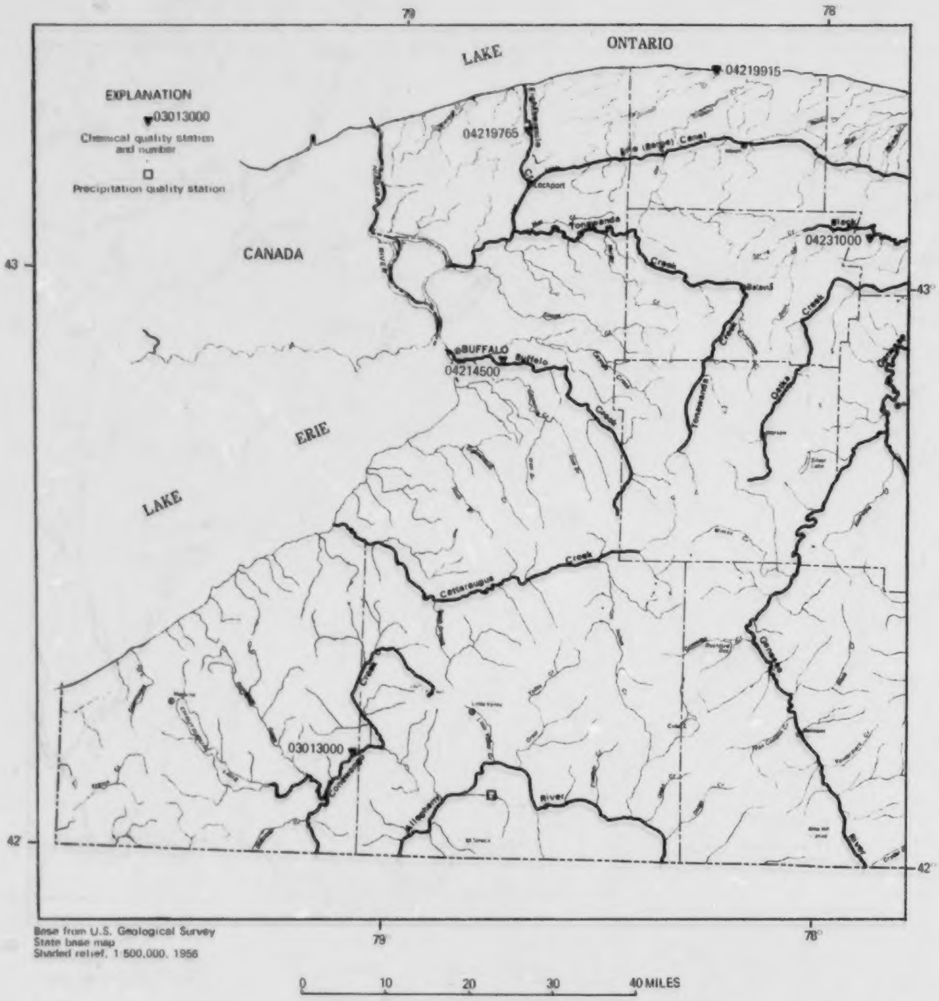
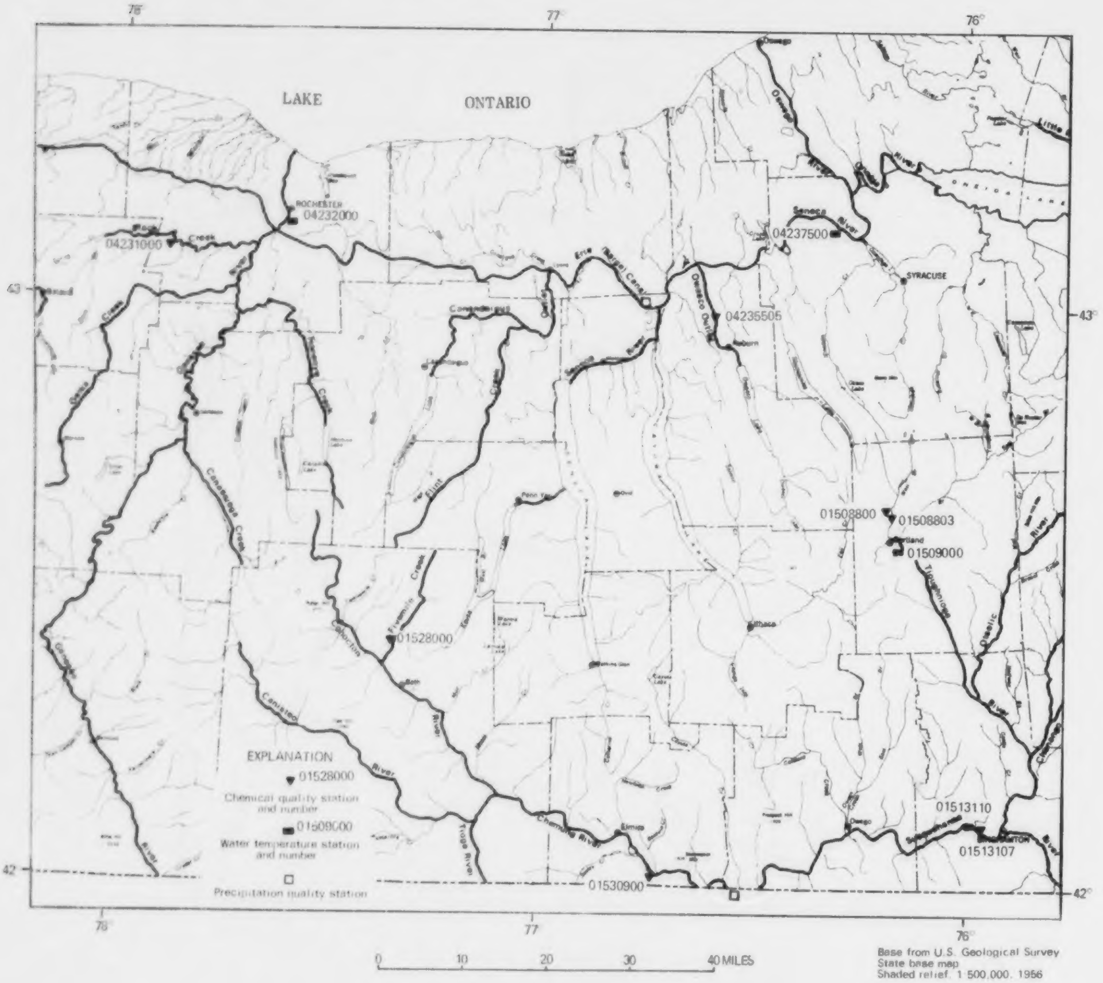

79
78
LAKE
ONTARIO
04219915
EXPLANATION
03013000
Chemical quality station and number
Precipitation quality station
04219765
Erie (Barge) Canal
Lockport
Tonawanda
Creek
04231000
43
43°
CANADA
Niagara River
BUFFALO
Buffalo
04214500
Creek
Tonawanda
Oatka
Creek
ERIE
LAKE
Cattaraugus
Creek
03013000
Conewango
Allegheny
River
Genesee
River
42
42°
Base from U.S. Geological Survey
State base map
Shaded relief, 1:500,000, 1956
79°
78°
0
10
20
30
40 MILES

Figure 3.--Location of water-quality stations.


LAKE
ONTARIO
78°
77°
76°
43°
42°
ROCHESTER
04232000
04231000
04237500
SYRACUSE
04235505
Seneca River
Erie Barge Canal
Oswego River
Oneida Lake
01508800
01508803
01509000
01528000
01513110
01513107
01530900
Canisteo River
Cohocton River
Chemung River
Tioga River
Tioughnioga River
Otselic River
Susquehanna River
Chenango River
Genesee River
Canaseraga Creek
Elmira
Owego
Ithaca
Bath
EXPLANATION
▼ 01528000
Chemical quality station and number
▬ 01509000
Water temperature station and number
□
Precipitation quality station
0
10
20
30
40 MILES

Base from U.S. Geological Survey
State base map
Shaded relief. 1:500,000. 1956

Figure 4.--Location of water-quality stations.

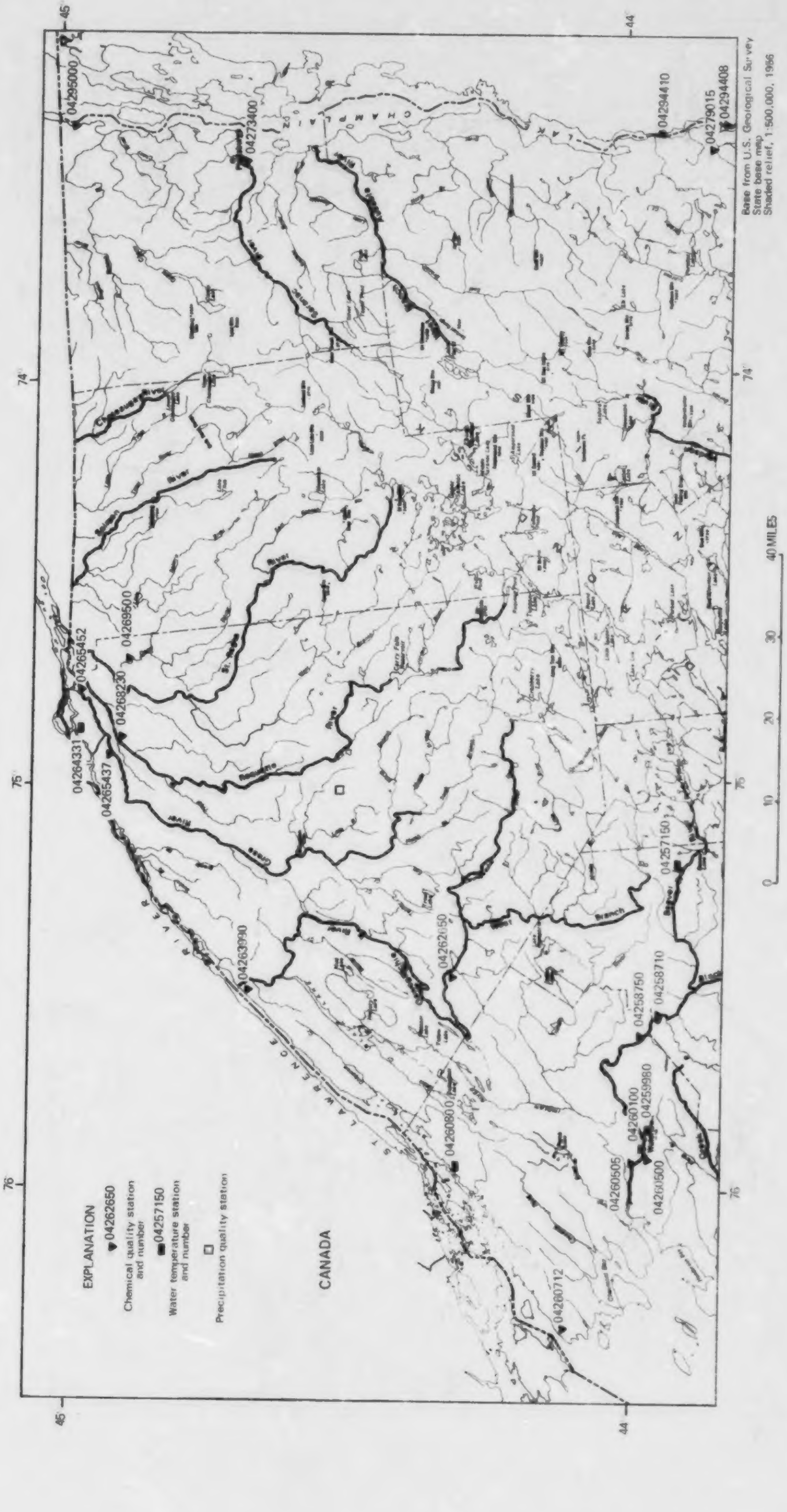

EXPLANATION
▼04262650 Chemical quality station and number
■04257150 Water temperature station and number
□ Precipitation quality station
CANADA
ST. LAWRENCE RIVER
LAKE CHAMPLAIN
04295000
04273400
04294410
04279015
04294408
04265452
04269500
04268230
04264331
04265437
04263990
04262650
04257150
04258750
04258710
04260100
04259980
04260505
04260500
04260800
04260712
45°
44°
74°
75°
76°
0 10 20 30 40 MILES
Base from U.S. Geological Survey State base map Shaded relief, 1:500,000, 1966

Figure 5.--Location of water-quality stations.

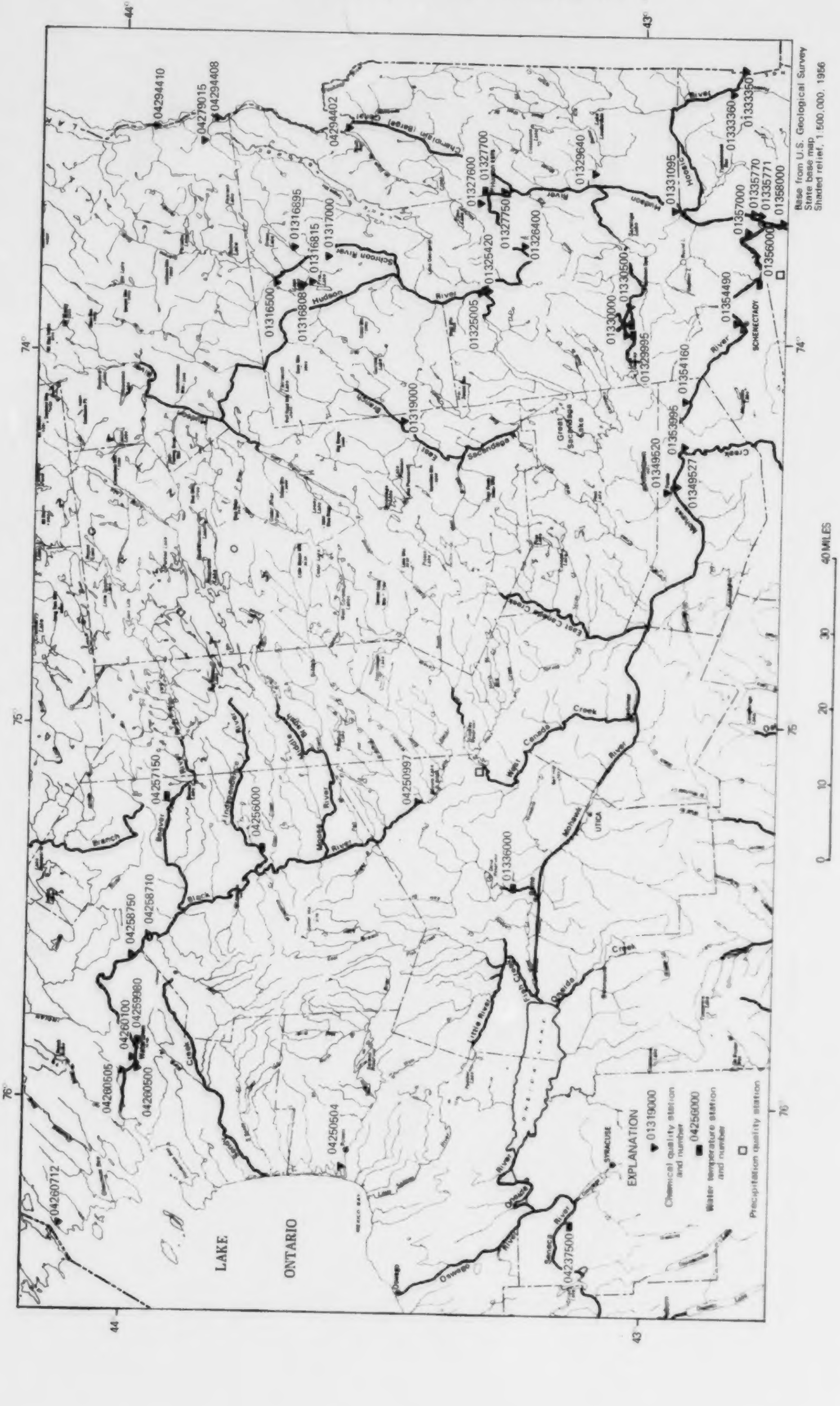

44°
43°
74°
75°
76°
LAKE
ONTARIO
04260712
04260505
04260500
04260100
04259980
04258750
04258710
04257150
04256000
04250997
04250504
04237500
01336000
01319000
01349520
01349527
01353995
01354160
01354490
01329995
01330000
01330500
01325005
01325420
01326400
01327600
01327700
01327750
01329640
01331095
01333360
01333350
01335770
01335771
01357000
01356000
01358000
01316500
01316808
01316815
01316895
01317000
04294402
04279015
04294408
04294410
Hudson
River
Schroon River
Champlain (Barge) Canal
Hoosic
Sacandaga
Great Sacandaga Lake
East
Creek
East Canada Creek
West Canada Creek
Mohawk River
Black
Beaver
Branch
Moose
River
Little River
Oneida
Oswego
Seneca River
Creek
SCHENECTADY
UTICA
SYRACUSE
0 10 20 30 40 MILES
EXPLANATION
▼ 01319000 Chemical quality station and number
■ 04256000 Water temperature station and number
☐ Precipitation quality station
Base from U.S. Geological Survey State base map Shaded relief, 1:500,000, 1956

Figure 6.--Location of water-quality stations.

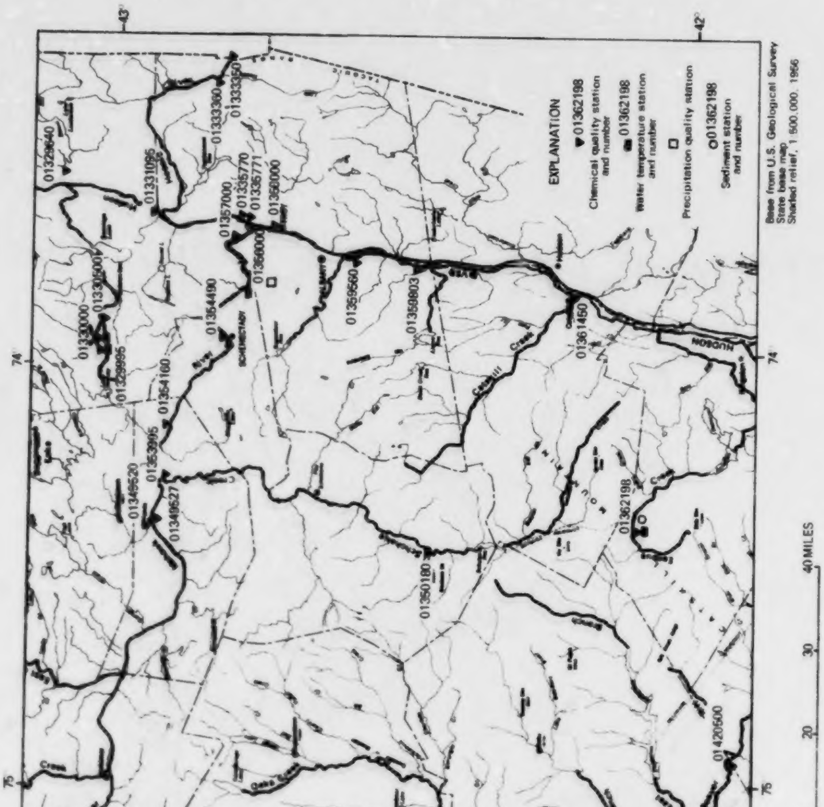

43°
42°
74°
75°
76°
01329640
01331095
01333360
01333350
01357000
01335770
01335771
01358000
01360000
01330000
01330500
01329995
01354490
01354160
01359560
01359803
01361450
01353995
01349520
01349527
01362198
01350180
01420500
01421000
01426500
01425000
01500500
01425675
01513110
01513107
01508803
01509000
01508600
04237500
HUDSON
SCHENECTADY
UTICA
SYRACUSE
EXPLANATION
▼01362198
Chemical quality station and number
■01362198
Water temperature station and number
□
Precipitation quality station
○01362198
Sediment station and number
Base from U.S. Geological Survey
State base map
Shaded relief, 1:500,000, 1956
0
10
20
30
40 MILES

Figure 7.--Location of water-quality stations.

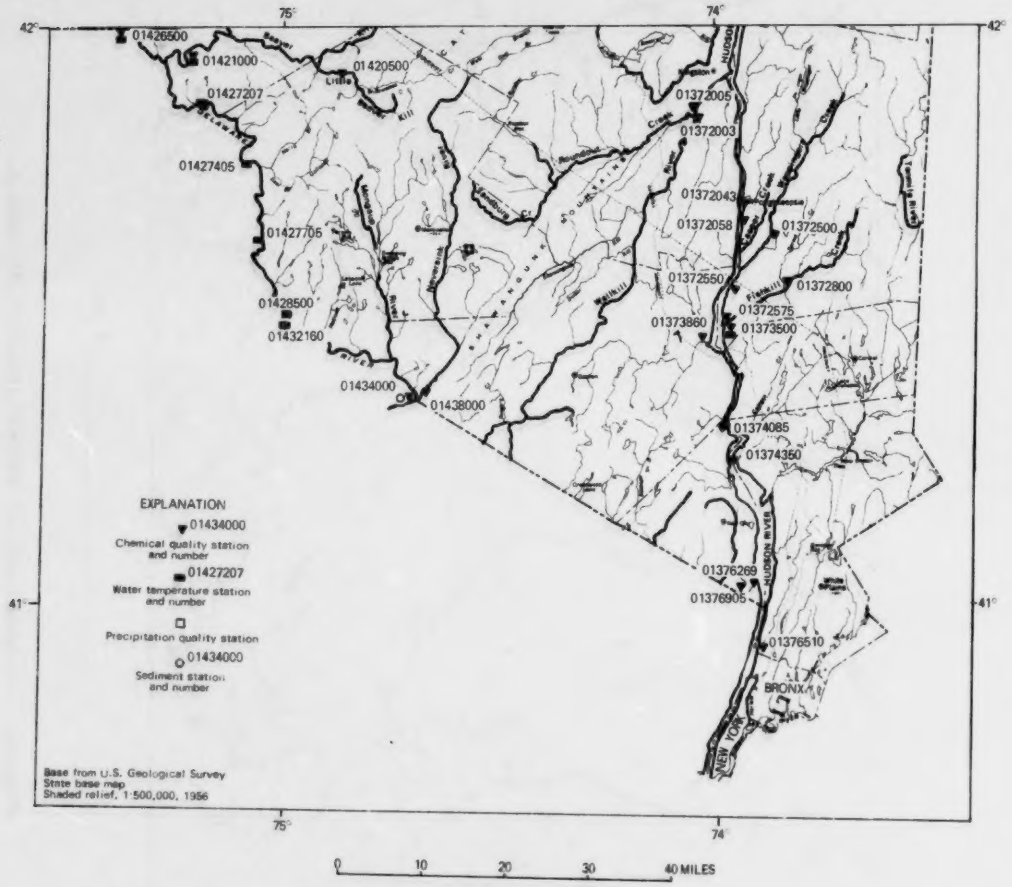

42°
75°
74°
42°
01426500
01421000
01420500
01427207
01427405
01427705
01428500
01432160
01434000
01438000
01372005
01372003
01372043
01372058
01372500
01372550
01372800
01372575
01373500
01373860
01374085
01374350
01376269
01376905
01376510
BRONX
NEW YORK
HUDSON RIVER
HUDSON
41°
41°
EXPLANATION
01434000
Chemical quality station and number
01427207
Water temperature station and number
□
Precipitation quality station
○ 01434000
Sediment station and number
Base from U.S. Geological Survey State base map Shaded relief, 1:500,000, 1956
75°
74°
0
10
20
30
40 MILES

Figure 8.--Location of water-quality stations.

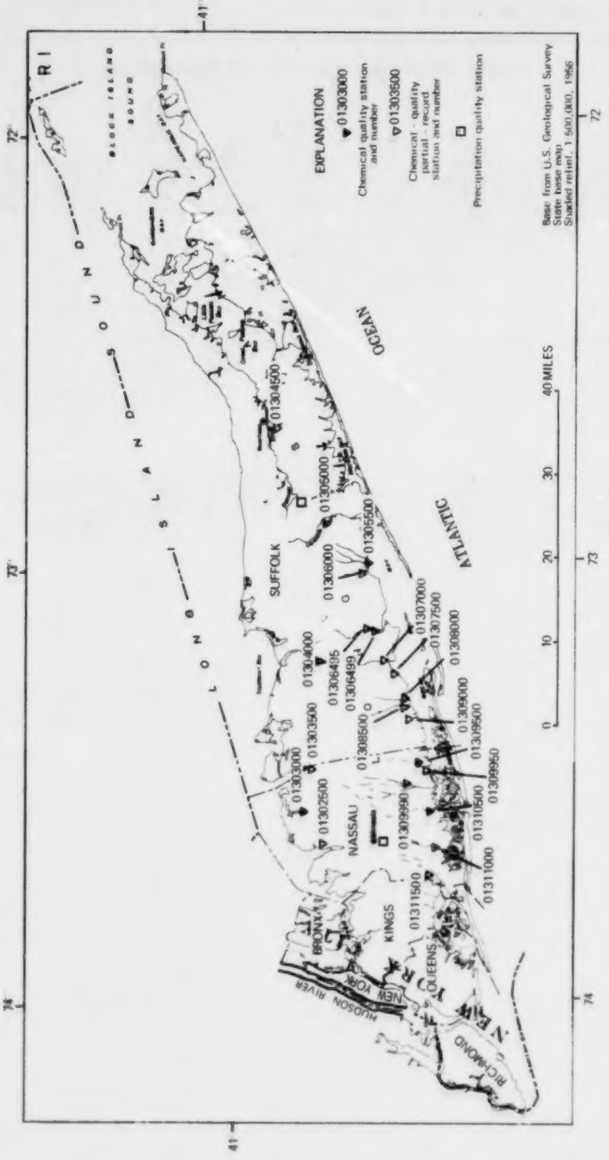

EXPLANATION
01303000 Chemical quality station and number
01303500 Chemical - quality partial - record station and number
Precipitation quality station
Base from U.S. Geological Survey State base map Shaded relief, 1:500,000, 1956
0 10 20 30 40 MILES
LONG ISLAND SOUND
BLOCK ISLAND SOUND
RI
ATLANTIC OCEAN
SUFFOLK
NASSAU
KINGS
QUEENS
BRONX
NEW YORK
RICHMOND
HUDSON RIVER
NEW YORK
41°
72°
73°
74°
01304500
01305000
01305500
01306000
01307000
01307500
01308000
01304000
01306495
01306499
01303500
01308500
01309000
01309500
01309950
01303000
01302500
01309990
01310500
01311000
01311500

Figure 9.--Location of water-quality stations.

NORTH ATLANTIC SLOPE BASINS

STREAMS ON LONG ISLAND

01303000 MILL NECK CREEK AT MILL NECK, N.Y.

LOCATION.—Lat 40°53'15", long 73°33'51", Nassau County, at gaging station on right bank at Beaver Dam, 30 ft upstream from Feeks Lane (Cleft Road) bridge in Mill Neck, and 1.5 miles southwest of Bayville.

DRAINAGE AREA.—About 11.5 sq mi.

PERIOD OF RECORD.—Chemical analyses: October 1970 to September 1972.

REMARKS.—Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 29...	5.7	6.1	350	50	10	4.3	13	2.0	32	15
NOV. 23...	5.4	6.9	430	10	10	4.0	9.1	1.7	31	16
DEC. 16...	6.6	8.3	1100	60	9.3	3.7	9.0	1.6	26	15
FEB. 16...	7.4	9.4	710	40	10	3.6	13	1.4	25	16
APR. 18...	9.2	5.1	450	50	13	8.0	52	3.2	31	27
AUG. 15...	14	6.5	540	90	11	4.2	11	1.1	35	16

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT. 29...	19	.1	1.0	1.7	.020	.15	.60	.060	89
NOV. 23...	15	.2	.94	2.1	.020	.13	1.1	.43	85
DEC. 16...	13	.1	--	--	--	--	1.5	.17	80
FEB. 16...	20	.1	1.7	3.6	.097	.08	1.8	.072	96
APR. 18...	90	.1	1.2	2.4	.038	.20	1.0	.091	220
AUG. 15...	18	.0	1.4	2.1	.028	.60	.12	.11	88

01303000 MILL NECK CREEK AT MILL NECK, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 29...	43	16	155	6.9	18.0	5.6	--	--	.04
NOV. 23...	41	16	144	6.9	3.0	6.6	--	--	.03
DEC. 16...	38	17	132	6.7	9.5	9.6	--	--	.03
FEB. 16...	40	19	156	6.8	6.0	9.8	--	--	.04
APR. 18...	65	40	430	7.0	--	--	0	.01	.10
AUG. 15...	45	16	156	7.3	23.0	--	--	--	.03

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
APR. 18...	4	200	0	90	0	0	0	0	5
AUG. 15...	9	--	--	--	--	--	--	0	7

DATE	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
APR. 18...	0	<.5	3	0	2	0	0	1.8	0
AUG. 15...	--	<.5	--	--	--	--	--	--	--

01305000 CARMANS RIVER AT YAPHANK, N.Y.

LOCATION.--Lat 40°49'49", long 73°54'24", Suffolk County, at gaging station on left bank 50 ft upstream from Long Island Railroad bridge, 0.2 mile northeast of Yaphank Station, and 0.5 mile southeast of Yaphank.

DRAINAGE AREA.--About 71 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 28...	13	10	430	140	7.0	2.6	7.0	1.4	21	11
NOV. 17...	13	11	410	120	7.5	2.6	6.9	1.2	20	11
DEC. 10...	15	11	520	120	6.8	2.6	7.2	1.0	18	11
JAN. 12...	15	13	440	140	6.5	2.6	8.0	1.1	19	12
FEB. 17...	14	13	400	130	6.5	2.3	7.3	.9	18	11
APR. 17...	22	10	480	120	7.2	2.4	6.8	1.0	18	12
AUG. 16...	21	8.2	300	70	6.9	2.5	6.8	.8	16	11

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT. 28...	10	.0	.68	1.5	.010	.25	.60	.020	63
NOV. 17...	10	.1	.19	1.0	.010	.07	.80	.030	64
DEC. 10...	10	.1	.39	1.6	.010	.39	.90	.029	64
JAN. 12...	10	.1	.26	1.3	.009	.17	.90	.019	67
FEB. 17...	9.5	.0	.84	1.7	.010	.07	.80	.038	64
APR. 17...	10	.0	1.0	1.8	.010	.07	.80	.056	63
AUG. 16...	12	.0	.36	1.0	.004	.15	.57	.016	59

01305000 CARMANS RIVER AT YAPHANK, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 28...	28	11	101	6.8	16.0	8.4	--	--	.03
NOV. 17...	29	13	100	6.9	10.5	6.7	--	--	.03
DEC. 10...	28	13	97	6.7	9.0	9.3	--	--	.03
JAN. 12...	27	11	97	6.8	8.5	--	--	--	.02
FEB. 17...	26	11	95	6.8	5.5	8.3	--	--	.03
APR. 17...	28	13	98	6.8	--	--	4	.00	.04
AUG. 16...	28	14	98	6.7	20.0	--	--	--	.02

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
APR. 17...	4	0	0	0	0	0	0	0	2
AUG. 16...	4	--	--	--	--	--	--	0	1

DATE	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
APR. 17...	0	<.5	12	0	0	0	0	.2	0
AUG. 16...	--	<.5	--	--	--	--	--	--	--

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, N.Y.

LOCATION.--Lat 40°41'20", long 73°27'19", Nassau County, at gaging station on left bank 350 ft west of Garfield Street at Lake Shore Drive, Massapequa, 0.2 mile north of Massapequa Park, and 3,000 ft upstream from Clark Avenue Bridge and head of Massapequa Pond of Brooklyn water-supply system.

DRAINAGE AREA.--About 38 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 22...	3.4	9.0	300	1500	18	4.7	27	5.9	16	46
NOV. 24...	3.4	9.4	200	1300	19	4.6	27	6.3	37	48
DEC. 17...	6.7	9.2	440	1700	19	4.4	28	5.9	12	45
JAN. 26...	5.4	10	380	1400	19	4.6	27	5.5	12	45
FEB. 16...	6.7	10	340	1300	20	4.6	28	5.9	10	49
APR. 17...	13	7.0	650	1000	16	3.9	19	4.3	32	35
AUG. 15...	16	5.1	150	250	18	3.6	19	5.0	24	35

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT. 22...	30	.7	.06	9.2	.030	2.8	6.4	.020	181
NOV. 24...	29	.2	.14	11	.030	3.7	7.2	.020	199
DEC. 17...	28	.6	--	--	--	--	10	.050	190
JAN. 26...	29	.1	.46	7.4	.025	.00	7.0	.028	178
FEB. 16...	31	2.3	.61	13	1.7	3.0	8.2	.021	202
APR. 17...	23	.1	1.3	8.9	.040	2.1	5.5	.058	152
AUG. 15...	23	.6	1.2	6.5	1.0	.55	3.7	.028	143

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 22...	64	51	287	6.1	--	--	--	--	.37
NOV. 24...	68	36	328	6.4	4.0	9.8	--	--	.45
DEC. 17...	66	56	314	6.4	10.0	10.3	--	--	.30
JAN. 26...	66	57	324	6.7	4.0	9.2	--	--	.42
FEB. 16...	69	61	335	6.8	8.0	11.5	--	--	.35
APR. 17...	56	30	250	6.6	--	--	22	.02	.30
AUG. 15...	60	40	242	6.3	--	--	--	--	.28

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
APR. 17...	4	700	0	130	7	0	0	20	100
AUG. 15...	9	--	--	--	--	--	--	0	10

DATE	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
APR. 17...	0	<.5	11	4	9	2	0	.6	90
AUG. 15...	--	<.5	--	--	--	--	--	--	--

01310500 EAST MEADOW BROOK AT FREEPORT, N.Y.

LOCATION.--Lat 40°39'56", long 73°34'13", Nassau County, at gaging station on right bank in Freeport, 24 ft upstream from bridge on Hempstead-Babylon Turnpike and 400 ft west of Meadowbrook Parkway.

DRAINAGE AREA.--About 31 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 22...	1.7	6.5	370	580	19	4.3	56	5.3	27	37
NOV. 24...	1.6	7.5	400	530	19	4.0	47	4.8	33	42
DEC. 17...	3.3	8.7	510	1200	20	4.1	39	5.1	29	46
JAN. 26...	3.3	8.8	350	910	19	4.3	65	4.8	34	43
FEB. 15...	4.7	8.2	410	880	18	3.8	70	4.5	32	44
APR. 19...	9.0	6.3	370	630	16	4.2	43	3.5	34	31
AUG. 15...	58	4.4	3600	3000	17	5.3	39	4.8	27	33

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT. 22...	90	.1	.63	4.2	.040	.88	2.7	.020	245
NOV. 24...	64	.1	1.6	5.7	.030	1.1	3.0	.010	221
DEC. 17...	46	.1	--	--	.560	.64	5.9	.020	212
JAN. 26...	95	.1	.40	5.8	.024	1.5	3.9	.012	276
FEB. 15...	100	.1	1.3	5.8	.226	.17	4.2	.025	285
APR. 19...	63	.1	.71	5.5	.026	1.6	3.2	.038	201
AUG. 15...	58	.4	1.1	5.6	.272	.15	4.1	.18	195

01310500 EAST MEADOW BROOK AT FREEPORT, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 22...	65	43	452	6.5	--	--	--	--	.16
NOV. 24...	64	37	402	6.6	6.0	9.1	--	--	.19
DEC. 17...	67	43	352	6.5	10.5	6.0	--	--	.18
JAN. 26...	55	37	500	6.6	5.5	5.8	--	--	.18
FEB. 15...	61	34	488	6.5	8.0	5.9	--	--	.26
APR. 19...	57	29	364	6.6	--	--	1	.02	.18
AUG. 15...	64	42	354	7.2	20.0	--	--	--	.23

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
APR. 19...	4	0	0	120	0	10	0	0	24
AUG. 15...	--	--	--	--	--	--	--	0	300

DATE	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
APR. 19...	0	<.5	21	3	4	0	10	1.0	80
AUG. 15...	--	<.5	--	--	--	--	--	--	--

01316500 SCHROON LAKE AT POTTERSVILLE, N.Y.

LOCATION.--Lat 43°43'40", long 73°48'40", Warren County, at outlet at bridge on River Road, 0.8 mile upstream from Trout Brook and 0.8 mile east of Pottersville.

DRAINAGE AREA.--317 sq mi.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 27...	1100	4.9	30	0	6.5	1.0	1.7	.3	17	0	14
JUNE 20...	1050	5.5	40	0	6.4	.9	1.6	.1	13	0	11
AUG. 15...	1050	5.9	60	0	7.0	.9	1.7	.0	15	0	12

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 27...	8.0	2.3	.0	.22	.34	.003	.07	.05	.010	34	3
JUNE 20...	8.5	2.2	.0	.45	.81	.004	.15	.21	.006	33	2
AUG. 15...	7.3	2.9	.0	.26	.40	.015	.03	.10	.004	34	2

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 27...	20	6	54	7.0	5	.02	4	0	--	2.4
JUNE 20...	20	9	50	7.0	9	.03	6	0	2	<.5
AUG. 15...	21	9	51	7.3	7	.02	3	0	3	<.5

01316808 LOON LAKE NEAR CHESTERTOWN, N.Y.

LOCATION.--Lat 43°46'40", long 73°50'20", Warren County, at dam, at outlet of lake, at U.S. Highway 9 and State Highway 8, and 1.6 miles northwest of Chestertown.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT. 27...	1145	3.2	90	0	7.0	1.2	3.3	.4	22	0	18
JUNE 20...	1120	4.5	70	0	7.8	1.1	3.6	.3	18	0	15
AUG. 15...	1115	3.4	40	0	7.8	1.1	3.7	.2	19	0	16

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 27...	6.9	4.3	.0	.17	.28	.004	.11	.00	.010	38	2
JUNE 20...	8.5	5.2	.0	.53	1.2	.006	.65	.08	.007	42	5
AUG. 15...	7.0	5.6	.0	.31	.47	.010	.12	.03	.004	39	1

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 27...	22	4	74	7.0	9	.03	0	0	2	.8
JUNE 20...	24	9	67	7.1	10	.03	7	0	1	<.5
AUG. 15...	24	8	66	7.1	10	.02	2	0	3	<.5

01316815 FRIENDS LAKE NEAR CHESTERTOWN, N.Y.

LOCATION.--Lat 43°38'12", long 73°50'25", Warren County, on east side of lake, 0.2 mile south of outlet and 2.0 miles southwest of Chestertown.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT. 27...	1215	2.1	20	0	6.0	1.2	1.5	.5	20	0	16
JUNE 20...	1145	2.9	40	0	6.3	1.0	1.6	.4	18	0	15
AUG. 15...	1130	2.2	30	0	6.0	1.1	1.5	.3	16	0	13

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 27...	6.0	1.4	.0	.30	.37	.001	.07	.00	.010	29	0
JUNE 20...	7.7	1.2	.0	.34	.54	.002	.10	.10	.007	31	1
AUG. 15...	6.4	1.6	.0	.18	.35	.010	.13	.03	.005	28	0

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 27...	20	4	52	7.1	9	.02	5	0	2	<.5
JUNE 20...	20	5	51	7.2	6	.03	6	0	2	<.5
AUG. 15...	20	6	50	7.0	7	.01	3	0	2	<.5

01316895 BRANT LAKE OUTLET AT BRANT LAKE, N.Y.

LOCATION.--Lat 43°41'10", long 73°44'30", Warren County, at bridge on County Highway 26 and 0.1 mile northeast of State Highway 8 in Brant Lake.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 27...	1020	2.4	30	0	11	1.5	2.3	.6	29	0	24
JUNE 20...	1025	2.3	40	0	10	1.3	2.3	.4	24	0	20
AUG. 15...	1020	1.9	20	0	10	1.4	2.1	.3	23	0	19

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 27...	9.4	3.6	.0	.32	.38	.001	.06	.00	.000	46	2
JUNE 20...	10	3.7	.0	.47	1.3	.005	.80	.04	.020	44	5
AUG. 15...	8.3	3.8	.0	.22	.37	.014	.10	.04	.004	40	0

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 27...	34	10	80	7.2	9	.03	5	0	--	1.0
JUNE 20...	30	11	75	7.3	8	.02	4	0	2	<.5
AUG. 15...	31	12	75	7.1	6	.01	2	0	3	<.5

Reproduced from
best available copy.

HUDSON RIVER BASIN

01317000 SCHROON RIVER AT RIVERBANK, N.Y.

LOCATION.--Lat 43°36'34", long 73°44'17", Warren County, at former gaging station, at highway bridge, at Riverbank, 0.6 mile upstream from Alder Brook, 6.4 miles downstream from dam at Starbuckville, and 11.8 miles downstream from Schroon Lake.

DRAINAGE AREA.--527 sq mi.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 27...	1000	296	5.6	110	0	8.3	1.4	2.4	.5	24	0	20
APR. 26...	1445	3890	6.7	--	--	6.2	1.0	1.9	.1	16	0	13
JUNE 20...	0955	504	5.8	90	0	8.0	1.1	1.9	.1	18	0	15
AUG. 15...	0950	--	6.3	90	0	8.0	1.2	2.2	.1	19	0	16

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 27...	8.1	3.5	.0	.14	.28	.003	.08	.06	.010	42	2
APR. 26...	9.0	2.5	.0	--	--	--	--	.20	--	36	--
JUNE 20...	8.5	3.0	.0	.32	1.5	.006	1.0	.24	.007	40	0
AUG. 15...	7.5	3.5	.0	.19	.38	.014	.10	.08	.044	39	3

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 27...	26	7	67	7.2	--	8	.02	7	0	--	<.5
APR. 26...	20	6	56	7.5	3.5	--	--	--	--	--	--
JUNE 20...	25	10	61	7.3	--	11	.03	2	0	3	<.5
AUG. 15...	25	9	63	7.1	--	8	.02	7	0	3	<.5

01319000 EAST BRANCH SACANDAGA RIVER AT-GRIFFIN, N.Y.

LOCATION.--Lat 43°28'25", long 74°13'25", Hamilton County, at gaging station 300 ft upstream from bridge at Griffin, 2 miles downstream from Georgia Creek, 3 miles upstream from mouth and 7 miles upstream from Wells.

DRAINAGE AREA.--114 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 21...	1130	55	6.6	200	0	5.7	1.2	2.2	.4	14	0	11
NOV. 23...	1015	125	7.0	120	0	5.0	1.0	1.2	.5	8	0	7
DEC. 20...	1200	243	7.0	60	0	4.8	.9	1.0	.4	7	0	6
JAN. 17...	1400	71	9.8	110	0	5.5	1.2	2.0	.3	11	0	9
FEB. 23...	1135	68	9.6	130	0	6.0	1.2	2.3	5.5	11	0	9
MAR. 21...	1240	480	7.2	80	0	4.5	1.7	1.5	.3	6	0	5
APR. 18...	1415	1360	6.1	80	0	4.0	.5	1.1	.1	5	0	4
MAY 23...	0900	322	4.7	70	0	4.6	.4	1.1	.2	6	0	5
JUNE 15...	0945	69	5.5	120	0	5.2	1.5	2.0	.3	11	0	9
JULY 25...	1015	110	6.6	330	0	4.9	1.0	1.6	.1	10	0	8
AUG. 24...	0930	53	6.3	260	0	5.2	1.2	2.1	.3	12	0	10
SEP. 21...	1000	37	7.1	370	0	6.4	1.2	2.2	.3	15	0	12

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 21...	11	2.0	.0	.27	.35	.002	.06	.02	.010	36	4	19
NOV. 23...	10	1.6	.0	.18	.35	.001	.05	.12	.010	31	4	17
DEC. 20...	11	1.1	.0	.60	1.2	.002	.24	.39	.006	32	2	16
JAN. 17...	12	1.6	.0	.26	.60	.002	.04	.30	.009	40	0	19
FEB. 23...	13	6.2	.0	.28	.79	.002	.14	.37	.006	51	1	20
MAR. 21...	10	1.4	.0	.20	.79	.001	.06	.53	.007	32	2	18
APR. 18...	10	2.0	.0	.22	1.1	.003	.32	.60	.009	30	5	12
MAY 23...	8.0	1.1	.0	.43	.82	.003	.24	.15	.007	25	7	13
JUNE 15...	8.9	2.1	.0	.54	.81	.005	.17	.10	.002	32	0	19
JULY 25...	12	1.5	.0	.31	.51	.005	.11	.09	.021	34	6	16
AUG. 24...	10	3.8	.0	.37	.54	.005	.05	.12	.009	36	3	18
SEP. 21...	10	2.5	.0	.32	.48	.007	.10	.06	.008	38	0	21

CONTINUED NEXT PAGE

01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
21...	8	51	7.0	9.0	7.1	10	.03	--	--	--	--
NOV.											
23...	10	46	6.9	.5	12.5	8	.05	5	0	0	<.5
DEC.											
20...	10	45	6.5	.0	8.9	13	.03	--	--	--	--
JAN.											
17...	10	52	6.7	.0	--	6	.02	--	--	--	--
FEB.											
23...	11	76	6.8	.0	13.0	7	.03	4	0	1	<.5
MAR.											
21...	13	43	6.4	.0	12.8	12	.03	--	--	--	--
APR.											
18...	8	37	6.5	3.0	8.2	12	.02	--	--	--	--
MAY											
23...	8	36	6.6	13.5	7.4	8	.00	--	--	--	--
JUNE											
15...	10	45	6.9	17.0	7.0	9	.03	--	--	--	--
JULY											
25...	8	42	7.0	21.0	6.1	19	.02	--	--	--	--
AUG.											
24...	8	55	7.3	20.5	7.0	10	.02	--	--	--	--
SEP.											
21...	9	53	7.2	10.5	7.5	12	.03	--	--	--	--

01325005 SACANDAGA RIVER AT HADLEY, N.Y.

LOCATION.--Lat 43°18'50", long 73°50'45", Saratoga County, at bridge on Corinth Road in Hadley, 0.2 mile upstream from mouth and 1.3 miles downstream from gaging station (01325000) near Hadley.

DRAINAGE AREA.--1,055 sq mi (at gage).

PERIOD OF RECORD.--Chemical analyses: May 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV. 30...	1200	E1530	3.3	150	0	4.5	1.0	1.2	.3	12	0
APR. 26...	1430	E1300	8.1	20	0	7.0	1.7	2.7	.4	20	0
MAY 23...	1445	E6590	4.7	30	0	4.4	.9	1.2	.2	8	0
SEP. 12...	1520	E3020	5.0	90	0	5.1	.9	1.1	.2	12	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
NOV. 30...	10	7.7	.1	.0	.07	.45	.005	.23	.14	.004	25
APR. 26...	16	9.0	5.0	.0	.30	.45	.001	.05	.10	.010	45
MAY 23...	7	8.9	1.3	.0	1.4	1.8	.003	.02	.41	.007	29
SEP. 12...	10	7.5	1.3	.1	.28	.47	.006	.03	.16	.021	28

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV. 30...	1	15	6	44	6.7	10	.03	7	30	4	.5
APR. 26...	18	24	8	68	7.8	4	.01	--	--	--	--
MAY 23...	6	15	8	41	6.8	3	.02	3	20	0	.5
SEP. 12...	8	16	7	42	7.1	7	.02	7	0	2	.5

01325420 HUDSON RIVER AT CORINTH, N.Y.

LOCATION.--Lat 43°14'35", long 73°50'06", Saratoga County, at bridge on River Street, in Corinth, 0.2 mile downstream from Sturdevant Creek, and 2.0 miles downstream from Barber Brook.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 13...	1400	E4680	5.1	120	0	5.0	1.0	1.7	.4	15	0
NOV. 09...	1245	E4240	4.7	150	20	5.0	1.1	1.3	.3	15	0
DEC. 14...	1315	E5360	6.0	120	0	6.0	1.1	1.4	.4	15	0
JAN. 19...	1000	E3810	5.7	100	0	5.8	1.3	2.7	.3	16	0
FEB. 16...	1200	E4420	6.4	70	0	5.0	1.1	1.6	.3	14	0
MAR. 14...	1245	E6470	6.8	90	170	6.5	1.3	1.9	.6	15	0
APR. 11...	1245	E6570	7.3	100	0	6.6	1.1	1.8	.5	13	0
MAY 09...	1315	E23600	5.8	60	0	5.1	.7	1.3	.3	10	0
JUNE 06...	1330	E6450	5.6	50	0	6.0	.9	1.5	.3	14	0
JULY 05...	1400	E15700	5.0	60	0	5.0	.9	1.3	.2	10	0
AUG. 01...	1245	E4470	5.2	100	30	6.4	1.0	1.4	.2	15	0
29...	1245	E5050	5.0	80	0	6.8	1.2	1.5	.3	15	0
SEP. 26...	1230	E3890	4.5	110	0	5.9	1.0	1.4	.2	15	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT. 13...	12	6.8	2.0	.0	.38	.63	.005	.06	.18	.020	31
NOV. 09...	12	8.6	1.4	.0	.68	.96	.005	.13	.14	.000	31
DEC. 14...	12	9.5	2.2	.0	.62	.96	.005	.12	.21	.016	36
JAN. 19...	13	8.5	3.5	.0	.30	.81	.003	.05	.46	.016	38
FEB. 16...	11	10	2.0	.0	.32	.74	.007	.11	.31	.006	35
MAR. 14...	12	10	2.3	.0	.78	1.2	.005	.16	.34	.010	39
APR. 11...	11	9.1	2.6	.0	.45	.88	.003	.09	.34	.022	38
MAY 09...	8	11	1.5	.0	.40	.83	.002	.08	.35	.011	33
JUNE 06...	11	9.2	2.2	.0	.69	1.4	.005	.55	.24	.008	35
JULY 05...	8	9.5	1.6	.0	.36	1.0	.010	.39	.26	.013	31
AUG. 01...	12	9.2	1.5	.0	.27	.59	.004	.12	.20	.014	34
29...	12	8.2	1.7	.0	.35	.59	.005	.10	.14	.009	33
SEP. 26...	12	8.2	1.5	.0	.27	.51	.003	.09	.15	.004	31

01325420 HUDSON RIVER AT CORINTH, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
13...	4	17	4	51	6.9	8	.03	--	--	--	--
NOV.											
09...	1	17	5	48	7.0	10	.02	5	20	--	<.5
DEC.											
14...	4	20	7	52	7.0	14	.08	--	--	--	--
JAN.											
19...	5	20	7	57	7.0	11	.03	1	20	4	<.5
FEB.											
16...	2	17	6	50	6.9	10	.02	4	0	2	--
MAR.											
14...	3	22	9	59	6.9	13	.01	--	--	--	--
APR.											
11...	6	21	10	56	6.4	5	.01	--	--	--	--
MAY											
09...	4	16	7	43	6.8	18	.02	8	0	3	<.5
JUNE											
06...	4	19	7	50	7.1	12	.04	--	--	--	--
JULY											
05...	6	16	8	43	6.8	9	.02	--	--	--	--
AUG.											
01...	6	20	8	49	7.4	10	.02	--	--	--	--
29...	4	22	10	51	7.0	7	.02	--	--	--	--
SEP.											
26...	4	19	7	48	7.3	9	.03	--	--	--	--

01326400 HUDSON RIVER AT SPIER FALLS, N.Y.

LOCATION.--Lat 43°14'00", long 73°45'20", Saratoga County, upstream from Niagara Mohawk Power Plant dam at Spier Falls, 0.5 mile upstream from former gaging station (01326500) and 5.2 miles downstream from Corinth.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 13...	1315	4.5	140	0	6.0	1.0	1.6	.3	16	0	13
NOV. 09...	1215	5.9	170	0	6.0	1.2	1.7	.5	17	0	14
DEC. 14...	1400	5.7	110	0	6.0	1.1	1.6	.5	15	0	12
JAN. 19...	1130	5.7	90	0	6.0	1.2	6.0	.3	15	0	12
FEB. 16...	1240	6.8	80	0	5.5	1.1	1.9	.3	15	0	12
MAR. 14...	1330	6.8	90	0	6.0	1.3	2.1	.4	14	0	11
APR. 11...	1330	6.8	110	0	6.1	1.1	1.7	.4	12	0	10
MAY 09...	1345	5.6	50	0	5.1	.7	1.4	.2	10	0	8
JUNE 06...	1410	5.2	60	0	5.2	.9	1.5	.3	12	0	10
JULY 05...	1445	5.2	60	0	5.1	.8	1.3	.3	11	0	9
AUG. 01...	1310	5.3	130	30	5.8	1.0	1.5	.2	14	0	11
29...	1315	4.8	90	0	7.0	1.2	1.9	.3	17	0	14
SEP. 26...	1315	4.7	110	0	6.3	1.1	1.6	.3	16	0	13

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 13...	7.0	2.0	.0	.30	.58	.006	.09	.19	.020	32	7
NOV. 09...	9.5	1.9	.0	.46	.79	.005	.19	.14	.010	36	3
DEC. 14...	10	1.7	.0	.48	.73	.005	.09	.16	.010	35	5
JAN. 19...	9.0	8.3	.0	.30	.78	.002	.31	.17	.012	45	3
FEB. 16...	10	2.5	.0	.16	.53	.008	.12	.24	.007	37	3
MAR. 14...	9.0	2.4	.0	.22	.76	.005	.19	.34	.010	37	3
APR. 11...	9.8	2.4	.0	.34	.84	.003	.13	.37	.010	36	2
MAY 09...	9.0	1.7	.0	.30	.75	.020	.08	.35	.025	31	3
JUNE 06...	8.1	2.0	.0	.37	.87	.010	.20	.29	.011	31	6
JULY 05...	8.0	1.4	.0	.00	.37	.010	.12	.24	.010	29	4
AUG. 01...	9.3	1.7	.0	.32	.64	.003	.15	.17	.018	33	7
29...	8.5	2.2	.0	.42	.73	.005	.17	.14	.016	36	5
SEP. 26...	9.1	1.5	.0	.35	.66	.005	.17	.14	.015	34	3

01326400 HUDSON RIVER AT SPIER FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
13...	19	6	51	6.7	10	.02	--	--	--	--
NOV.										
09...	20	6	54	6.9	10	.03	7	0	--	<.5
DEC.										
14...	20	7	52	7.0	13	.03	--	--	--	--
JAN.										
19...	20	8	75	6.9	9	.02	2	40	7	<.5
FEB.										
16...	18	6	52	7.0	8	.02	5	0	2	--
MAR.										
14...	20	9	54	6.9	11	.00	--	--	--	--
APR.										
11...	20	10	55	6.3	5	.02	--	--	--	--
MAY										
09...	16	7	44	6.9	12	.02	10	30	2	<.5
JUNE										
06...	17	7	47	6.9	6	.03	--	--	--	--
JULY										
05...	16	7	43	6.8	10	.03	--	--	--	--
AUG.										
01...	19	7	49	7.0	10	.02	--	--	--	--
29...	22	8	55	7.2	7	.02	--	--	--	--
SEP.										
26...	20	7	52	7.2	12	.04	--	--	--	--

01327650 HUDSON RIVER AT GLENS FALLS, N.Y.

LOCATION.--Lat 43°18'20", long 73°36'58", at Warren-Saratoga County line, at highway and quarry conveyor bridge, 0.1 mile east of Glens Falls and 1.4 miles downstream from bridge on U.S. Highway 9 and State Highway 32.

PERIOD OF RECORD.--Chemical analyses: April to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, APRIL TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
APR.											
11...	1145	6.9	120	0	6.6	1.2	1.9	.3	13	0	11
MAY											
09...	1230	5.8	50	0	5.0	.7	1.5	.2	10	0	8
JUNE											
06...	1230	3.3	80	0	6.2	.9	2.3	.4	12	0	10
JULY											
05...	1310	5.3	80	0	5.4	.9	1.3	.2	12	0	10
AUG.											
01...	1145	5.4	120	30	6.8	1.0	2.0	.3	14	0	11
29...	1210	4.6	70	20	7.0	1.2	2.7	.3	14	0	11
SEP.											
26...	1145	4.5	110	100	6.7	1.1	2.3	.4	14	0	11

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
APR.											
11...	10	2.9	.0	.52	1.1	.004	.21	.37	.010	39	4
MAY											
09...	11	2.0	.0	.24	.69	.003	.10	.35	.009	33	6
JUNE											
06...	11	4.8	.1	.73	1.3	.006	.42	.23	.031	37	7
JULY											
05...	8.4	1.5	.0	.00	.34	.008	.12	.22	.014	30	8
AUG.											
01...	12	2.5	.0	.33	.82	.004	.30	.19	.031	39	80
29...	11	3.5	.0	.48	.82	.005	.20	.14	.023	39	8
SEP.											
26...	13	3.3	.0	.68	1.4	.005	.59	.14	.022	40	4

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
APR.										
11...	21	11	58	6.4	8	.02	--	--	--	--
MAY										
09...	15	7	46	7.0	20	.02	10	30	10	<.5
JUNE										
06...	19	9	60	6.6	12	.05	--	--	--	--
JULY										
05...	17	7	45	6.8	21	.03	--	--	--	--
AUG.										
01...	21	10	56	7.0	19	.03	--	--	--	--
29...	22	11	60	6.7	15	.04	--	--	--	--
SEP.										
26...	21	10	61	6.7	22	.06	--	--	--	--

01327700 HUDSON RIVER AT HUDSON FALLS, N.Y.

LOCATION.--Lat 43°18'00", long 73°35'30", Saratoga County, at Arkell and Smiths Pumphouse on west bank in Fenimore, across river from Hudson Falls and 1,500 ft upstream from Fenimore Dam.

DRAINAGE AREA.--3,491 sq mi, approximately.

PERIOD OF RECORD.--Water temperatures: November 1957 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 23.5°C July 20, 24; minimum, freezing point on many days during winter period.

Period of Record:
Water temperatures: Maximum, 27.0°C July 16-18, 1969; minimum, freezing point on many days during winter periods.

REMARKS.--Stream frozen many days during January and February. No record May 4-7.

COOPERATION.--Water temperature record furnished by Arkell and Smiths Division of the Chase Bag Corporation.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.5	14.0	3.0	0.0	0.0	0.5	0.0	6.0	15.5	16.0	20.5	21.0
2	16.5	13.5	1.5	0.0	0.0	0.5	0.0	6.0	15.5	16.0	20.0	20.5
3	16.5	13.0	1.5	0.0	0.0	0.0	0.0	6.0	15.5	16.5	20.0	20.0
4	18.0	13.0	1.5	0.0	0.0	0.0	0.0	---	15.0	16.5	20.0	19.5
5	18.0	12.0	1.0	0.0	0.0	0.0	0.0	---	15.5	16.0	19.5	19.5
6	17.0	11.0	0.5	0.0	0.0	0.0	0.0	---	16.0	16.0	19.5	19.5
7	16.5	10.5	1.5	0.0	0.0	0.0	0.0	---	16.0	16.0	19.5	19.5
8	16.0	9.0	1.5	0.0	0.0	0.0	0.0	5.0	16.0	16.0	19.5	19.0
9	15.5	8.5	3.5	0.0	0.0	0.0	0.0	5.0	16.0	16.0	19.5	18.5
10	15.5	8.0	4.0	0.0	0.0	0.0	0.5	5.0	15.0	16.5	19.0	18.0
11	15.0	7.0	3.5	0.0	0.0	0.0	0.5	4.5	14.5	18.0	18.5	18.0
12	14.5	6.5	3.0	0.0	0.0	0.0	1.0	5.0	15.0	18.5	18.0	18.0
13	14.0	6.5	2.0	0.0	0.0	0.0	1.0	5.5	15.0	19.0	18.5	17.0
14	14.0	5.5	1.5	0.0	0.0	0.0	1.5	6.5	15.5	19.5	18.0	16.5
15	14.0	5.5	0.5	0.0	0.0	0.0	1.0	8.0	16.0	20.0	18.5	16.5
16	14.0	6.0	1.0	0.0	0.0	0.0	1.5	8.0	16.5	21.0	18.0	16.0
17	14.0	6.0	1.0	0.0	0.0	0.0	2.0	9.0	17.0	22.0	18.0	16.0
18	14.0	5.5	1.0	0.0	0.0	0.0	3.0	9.5	18.0	22.0	18.0	17.0
19	14.5	6.0	0.5	0.0	0.0	0.0	2.0	10.0	18.0	23.0	18.5	16.5
20	14.0	6.0	0.0	0.0	0.0	0.0	2.0	10.5	18.0	23.5	19.0	16.0
21	13.5	6.0	0.0	0.0	0.0	0.0	2.0	10.5	17.0	23.0	19.0	16.0
22	13.5	5.5	0.0	0.0	0.0	0.0	0.5	11.0	17.0	23.0	19.0	16.5
23	13.5	5.0	0.0	0.0	0.0	0.0	1.5	12.0	16.5	22.0	20.0	16.0
24	13.5	4.5	0.0	0.0	0.0	0.0	2.0	13.0	15.5	23.5	20.0	15.5
25	13.5	5.0	0.0	0.0	0.0	0.0	3.0	13.5	14.0	23.0	20.0	15.5
26	14.0	3.5	0.0	0.0	0.0	0.0	3.0	13.5	11.0	22.0	20.0	16.0
27	14.0	3.5	0.0	0.0	0.0	0.0	3.0	13.5	14.5	23.0	20.0	16.5
28	14.5	3.5	0.0	0.0	0.0	0.0	3.5	13.5	15.5	22.0	20.5	15.5
29	14.5	3.5	0.5	0.0	0.0	0.0	4.0	13.5	16.0	21.0	21.0	15.5
30	14.5	3.5	0.0	0.0	---	0.0	4.0	16.0	16.0	20.0	20.5	15.5
31	13.5	---	0.0	0.0	---	0.0	---	16.0	---	20.5	21.0	---
AVERAGE	15.0	7.0	1.5	0.0	0.0	0.0	1.5	9.5	16.0	19.5	19.5	17.5

01327750 HUDSON RIVER AT FORT EDWARD, N.Y.

LOCATION.--Lat 43°16'10", long 73°35'47", Washington County, at power plant intake in Fort Edward and 0.4 mile upstream from bridge on State Highway 197.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
13...	1215	4.3	140	0	7.0	1.1	3.2	.4	14	0	11
27...	1410	4.3	170	50	6.2	1.2	3.2	.5	16	0	13
NOV.											
09...	1045	4.8	160	0	6.0	1.2	3.0	.4	15	0	12
30...	1430	4.5	150	0	6.0	1.2	2.9	.4	12	0	10
DEC.											
14...	1130	4.7	150	10	6.9	1.2	2.8	.5	15	0	12
JAN.											
05...	1100	5.5	80	0	6.1	1.2	2.9	.4	15	0	12
19...	1215	5.7	150	120	6.9	1.4	3.8	.5	16	0	13
FEB.											
02...	1330	6.0	120	0	6.6	1.3	3.3	.4	16	0	13
16...	1100	6.5	100	0	5.5	1.2	2.8	.4	16	0	13
29...	1445	6.4	120	90	6.0	1.3	3.6	.4	12	0	10
MAR.											
14...	1115	6.8	110	10	6.5	1.3	2.6	.4	14	0	11
28...	1500	6.9	180	0	6.4	1.2	3.4	.4	12	0	10
APR.											
11...	1100	6.9	150	0	7.0	1.2	2.6	.4	16	0	13
26...	1600	6.4	60	0	6.5	.9	2.7	.2	14	0	11
MAY											
09...	1145	5.7	70	0	5.1	.8	1.9	.3	10	0	8
23...	1315	5.1	80	0	6.0	1.0	2.7	.3	11	0	9
JUNE											
06...	1145	5.3	100	0	6.2	1.0	2.4	.4	14	0	11
JULY											
05...	1220	5.1	70	0	5.8	.9	1.4	.2	11	0	9
18...	1400	5.3	110	0	6.4	1.4	2.5	.3	13	0	11
AUG.											
01...	1100	5.3	150	30	6.7	1.1	3.0	.4	13	0	11
15...	1300	5.5	140	0	6.9	1.1	3.4	.3	14	0	11
29...	1135	4.6	80	0	7.2	1.3	3.2	.3	15	0	12
SEP.											
12...	1405	5.3	80	0	6.9	1.1	2.8	.3	17	0	14
26...	1105	4.6	110	40	8.1	1.3	4.1	.5	11	0	9

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
13...	13	4.3	.0	.95	1.6	.008	.18	.51	.040	44	14
27...	12	3.5	.0	.34	.84	.005	.23	.26	.070	41	6
NOV.											
09...	12	3.5	.0	.60	1.1	.006	.36	.20	.020	40	3
30...	13	4.0	.0	.15	.75	.005	.38	.22	.020	39	5
DEC.											
14...	12	3.8	.0	.50	.95	.007	.22	.23	.027	41	6
JAN.											
05...	12	3.8	.0	.12	.70	.004	.32	.26	.021	41	7
19...	12	4.5	.0	.52	.95	.004	.19	.24	.028	45	18
FEB.											
02...	12	4.0	.0	.32	.94	.004	.22	.40	.022	44	5
16...	11	3.3	.0	.44	.94	.004	.17	.33	.000	41	3
29...	15	3.4	.0	.48	1.2	.005	.36	.40	.012	45	9
MAR.											
14...	11	3.2	.0	.44	1.0	.006	.24	.37	.010	41	7
28...	16	4.0	.0	.35	1.1	.007	.37	.46	.018	47	9
APR.											
11...	11	2.7	.0	.40	1.4	.005	.65	.42	.011	43	5
26...	12	3.5	.0	.46	.99	.004	.13	.40	.020	42	11
MAY											
09...	11	2.5	.0	.35	.85	.008	.15	.35	.027	34	10
23...	12	2.6	.0	.73	1.9	.009	.35	.88	.012	40	4
JUNE											
06...	12	3.0	.0	.55	1.6	.010	.80	.33	.040	40	8
JULY											
05...	9.6	1.7	.0	.29	.63	.005	.08	.26	.021	32	6
18...	14	3.5	.0	.47	1.0	.010	.35	.25	.016	42	4
AUG.											
01...	13	3.5	.0	.56	1.4	.009	.47	.46	.12	43	5
15...	10	4.0	.0	.46	.92	.006	.21	.25	.026	40	1
29...	11	3.4	.0	.53	1.0	.010	.20	.29	.016	41	3
SEP.											
12...	10	2.1	.0	.65	1.2	.010	.20	.41	.026	40	40
26...	19	4.5	.0	.80	2.3	.009	1.1	.41	.013	52	10

01327750 HUDSON RIVER AT FORT EDWARD, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
13...	22	11	70	6.5	19	.04	--	--	--	--
27...	20	7	68	6.6	13	.03	1	0	--	<.5
NOV.										
09...	20	8	64	6.5	26	.04	--	--	--	--
30...	20	10	64	6.4	9	.96	--	--	--	--
DEC.										
14...	22	10	64	6.7	32	.05	--	--	--	--
JAN.										
05...	20	8	65	6.7	20	.03	--	--	--	--
19...	23	10	71	6.7	14	.04	--	--	--	--
FEB.										
02...	22	9	65	6.8	27	.03	5	10	65	<.5
16...	19	6	60	7.0	11	.02	--	--	--	--
29...	20	10	72	6.7	12	.06	3	0	58	<.5
MAR.										
14...	22	10	64	6.7	12	.02	--	--	--	--
28...	21	11	68	6.9	12	.08	--	--	--	--
APR.										
11...	22	9	66	6.7	8	.03	--	--	--	--
26...	20	8	60	6.9	12	.03	--	--	--	--
MAY										
09...	16	8	50	6.7	18	.03	8	20	12	<.5
23...	19	10	59	6.7	15	.04	6	0	7	<.5
JUNE										
06...	20	8	59	6.7	11	.05	--	--	--	--
JULY										
05...	18	9	46	6.8	9	.03	--	--	--	--
18...	22	11	63	6.6	4	.04	--	--	--	--
AUG.										
01...	21	11	65	6.6	19	.05	--	--	--	--
15...	22	10	67	6.7	11	.04	--	--	--	--
29...	23	11	65	7.1	13	.03	--	--	--	--
SEP.										
12...	22	8	62	7.1	11	.03	9	0	3	<.5
26...	26	17	83	6.6	33	.08	--	--	--	--

01329640 BATTEN KILL AT MIDDLE FALLS, N.Y.

LOCATION.--Lat 43°05'05", long 73°31'32", Washington County, at Niagara Mohawk Power Plant in Middle Falls, 0.5 mile downstream from Hartshorn Brook, and 4.5 miles upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
13...	1120	4.2	90	0	24	5.7	3.7	1.1	86	0	71
NOV.											
09...	1000	2.9	60	0	28	8.4	3.8	1.0	112	0	92
DEC.											
14...	1045	4.5	50	0	21	5.0	3.1	1.0	68	0	56
FEB.											
16...	1015	4.2	20	0	24	6.1	6.1	1.9	83	0	68
MAR.											
14...	1030	4.4	30	0	26	6.4	3.4	1.4	88	0	72
APR.											
11...	0945	3.5	70	0	26	6.1	3.4	.8	86	0	71
MAY											
09...	1030	3.8	40	0	19	4.1	2.3	.7	57	0	47
JUNE											
06...	1045	3.4	20	0	25	5.1	3.1	.7	91	0	75
JULY											
05...	1115	4.7	60	0	23	5.2	2.9	.6	80	0	66
AUG.											
01...	1015	3.5	30	20	31	7.5	3.9	.8	112	0	92
29...	1045	2.4	20	0	34	8.9	4.8	1.0	124	0	102
SEP.											
26...	1015	2.7	60	0	34	8.5	4.6	1.1	124	0	102

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
13...	12	5.2	.0	.21	1.1	.006	.57	.33	.020	101	7
NOV.											
09...	11	6.3	.0	.34	.73	.005	.11	.28	.010	118	2
DEC.											
14...	14	4.8	.0	.40	1.2	.006	.08	.77	.029	91	13
FEB.											
16...	14	8.9	.0	.71	2.1	.215	.14	1.0	.040	112	6
MAR.											
14...	14	6.0	.0	.31	1.1	.007	.08	.76	.010	109	8
APR.											
11...	14	6.2	.0	.47	1.3	.006	.25	.61	.008	106	2
MAY											
09...	12	4.5	.0	.38	1.1	.007	.10	.62	.040	78	17
JUNE											
06...	11	5.4	.0	.44	1.0	.023	.12	.51	.009	101	5
JULY											
05...	12	4.5	.0	.45	1.0	.007	.08	.51	.028	95	11
AUG.											
01...	12	6.0	.0	.37	1.0	.007	.10	.54	.020	123	7
29...	11	7.0	.0	.44	.96	.010	.12	.39	.019	132	5
SEP.											
26...	14	7.3	.0	.44	.90	.005	.10	.36	.012	135	4

01329640 BATTEN KILL AT MIDDLE FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
13...	83	13	172	7.6	15	.02	--	--	--	--
NOV.										
09...	100	13	216	7.7	8	.02	--	--	--	--
DEC.										
14...	73	17	157	7.5	16	.04	--	--	--	--
FEB.										
16...	85	17	193	7.5	12	.03	--	--	--	--
MAR.										
14...	91	19	194	7.7	6	.00	--	--	--	--
APR.										
11...	90	19	191	6.9	3	.04	--	--	--	--
MAY										
09...	64	18	130	7.8	10	.02	6	0	4	<.5
JUNE										
06...	83	9	182	7.9	9	.03	--	--	--	--
JULY										
05...	79	13	169	7.8	9	.02	--	--	--	--
AUG.										
01...	110	16	222	8.0	5	.02	--	--	--	--
29...	120	20	243	8.1	5	.02	--	--	--	--
SEP.										
26...	120	18	245	7.8	6	.02	--	--	--	--

01329995 GLOWEGEE CREEK NEAR WEST MILTON, N.Y.

LOCATION.--Lat 43°02'29", long 73°56'40", Saratoga County, specific conductance and temperature recorders 60 ft upstream from S3G drainage ditch of the U.S. Atomic Energy Commission, 0.1 mile downstream from a small tributary and 1.0 mile northwest of West Milton.

DRAINAGE AREA.--21.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1964 to December 1966, July 1967 to September 1972.
Water temperatures: October to December 1966, July 1967 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum, 340 micromhos Nov. 17-19; minimum, 140 micromhos May 4.
Water temperatures: Maximum, 26.0°C Aug. 27; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance (1964, 1965, 1966-72): Maximum, 340 micromhos Jan. 16, 1966 and Nov. 17-19, 1971; minimum, 85 micromhos Mar. 27, 1970.
Water temperatures: Maximum, 29.0°C July 16, 17, 1968; minimum, freezing point on many days during winter periods.

REMARKS.--Specific conductance records all reported to the nearest five micromhos. Specific conductance records for 1965 and 1966 water years published as auxiliary recorder 01330000 Glowegee Creek at West Milton. No water temperature record Nov. 24, 25, Apr. 16, May 7, 8, June 5-8, 27, 28, and Aug. 20.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	280	280	280	280	295	275	245	240	295	295	280	280
2	280	280	280	275	320	295	240	240	295	295	290	280
3	280	280	280	280	320	310	250	240	295	295	290	275
4	280	280	285	280	310	310	250	250	295	290	275	275
5	280	280	285	285	325	310	260	250	290	290	280	275
6	285	280	290	265	325	320	260	260	295	290	290	275
7	280	280	280	275	320	300	260	260	300	295	290	290
8	285	280	285	280	305	300	265	260	300	300	295	290
9	285	280	290	285	300	300	270	260	305	300	300	295
10	285	250	295	290	305	295	270	265	305	295	330	300
11	295	250	300	290	295	215	270	270	300	300	320	315
12	305	295	300	300	225	210	275	270	305	300	320	305
13	300	295	300	300	230	225	280	275	300	280	305	290
14	295	290	300	300	240	230	280	275	280	265	295	290
15	295	290	300	300	240	225	275	275	280	280	295	280
16	300	290	300	290	225	215	295	275	280	280	280	280
17	295	285	340	290	220	220	295	295	280	270	280	260
18	300	295	340	340	225	220	300	295	270	270	270	265
19	300	300	340	310	240	225	305	300	270	270	275	270
20	300	300	310	300	260	240	310	305	275	270	280	240
21	305	300	305	300	260	255	310	310	275	275	270	260
22	300	300	305	300	260	255	310	305	275	275	270	240
23	300	295	310	305	260	255	305	285	280	275	240	190
24	305	300	310	300	260	240	290	290	280	280	265	240
25	300	290	300	295	240	220	290	280	280	280	270	265
26	290	290	295	280	250	240	280	280	280	280	275	270
27	290	280	285	285	260	250	280	280	280	280	280	275
28	280	280	290	285	255	230	300	280	280	280	290	280
29	285	280	290	290	230	230	295	295	280	280	280	225
30	285	280	295	275	230	230	295	295	---	---	225	220
31	280	280	---	---	240	230	295	295	---	---	235	220

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	250	230	165	160	220	210	230	220	250	245	240	240
2	250	230	165	165	230	220	250	230	245	245	240	240
3	265	250	165	160	230	230	250	150	245	205	240	240
4	260	255	170	140	230	210	230	200	245	230	240	240
5	265	260	195	165	225	215	240	230	240	240	245	240
6	260	255	195	175	225	215	245	240	240	240	245	245
7	255	245	175	175	215	210	245	240	240	240	245	240
8	245	245	180	175	220	215	250	245	240	240	240	235
9	245	220	185	180	215	205	250	250	245	240	235	230
10	220	215	190	180	220	215	250	250	240	240	230	230
11	235	220	195	190	220	220	250	250	245	240	230	230
12	235	195	200	195	230	220	260	250	245	245	230	230
13	215	150	210	200	235	230	265	260	245	245	235	225
14	165	145	215	210	245	235	265	265	250	240	230	225
15	185	165	225	215	255	245	265	260	240	240	235	230
16	190	185	225	215	260	255	260	250	245	240	235	230
17	185	150	225	220	270	260	250	205	245	245	240	235
18	160	150	235	225	270	270	250	250	250	245	240	210
19	160	155	240	235	280	255	250	240	250	250	225	205
20	155	155	240	240	275	255	240	240	255	250	225	225
21	165	155	240	235	275	170	245	240	255	250	230	225
22	170	165	240	235	185	165	245	240	255	250	240	230
23	170	165	235	235	185	165	240	240	250	250	245	240
24	170	165	235	235	210	185	250	240	250	240	250	245
25	170	170	235	235	220	210	250	245	240	240	255	250
26	170	165	235	235	255	220	245	235	240	240	260	255
27	165	165	235	230	265	255	240	235	240	240	260	260
28	165	160	230	230	270	265	245	240	240	240	260	250
29	165	155	230	225	270	260	245	245	240	240	250	250
30	160	155	225	225	260	170	250	245	240	240	255	245
31	---	---	225	210	---	---	250	250	240	240	---	---

01329995 GLOWEGEE CREEK NEAR WEST MILTON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	11.0	12.0	9.0	1.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0
2	17.0	12.0	11.5	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
3	16.0	15.0	10.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	15.0	13.5	8.0	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0
5	16.0	14.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
6	14.0	11.5	6.0	3.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0
7	11.5	10.5	6.5	4.0	0.5	0.0	0.0	0.0	0.5	0.0	0.5	0.0
8	10.5	7.0	4.5	1.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
9	10.0	8.0	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
10	12.0	10.0	2.0	0.5	2.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
11	12.0	10.0	3.5	2.0	2.0	1.0	0.5	0.0	0.5	0.0	0.0	0.0
12	11.5	9.5	3.5	2.0	2.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0
13	11.0	8.0	5.0	2.0	2.0	1.0	0.0	0.0	0.5	0.0	0.5	0.0
14	13.5	10.0	2.0	0.0	1.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5
15	14.5	10.0	1.5	0.0	1.0	1.0	0.0	0.0	0.5	0.0	0.5	0.0
16	14.0	10.0	5.0	1.5	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
17	14.0	12.0	4.5	2.0	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
18	12.0	8.0	5.5	3.5	1.0	0.0	0.5	0.0	0.5	0.0	0.5	0.0
19	11.0	6.5	6.0	3.0	0.0	0.0	0.5	0.0	0.5	0.0	0.5	0.0
20	10.0	8.5	6.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
21	10.5	6.5	4.5	3.5	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0
22	10.5	7.0	4.5	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
23	13.0	9.5	3.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0
24	---	---	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.0
25	---	---	0.0	0.0	0.0	0.0	1.0	0.5	0.5	0.0	0.5	0.0
26	14.0	11.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.0
27	13.0	10.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.0
28	13.5	9.5	1.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0	1.0	0.0
29	12.0	8.5	2.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0	4.5	0.0
30	10.5	6.5	2.0	0.0	0.0	0.0	0.5	0.0	---	---	1.0	0.5
31	9.5	6.5	---	---	0.0	0.0	0.5	0.0	---	---	4.5	1.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	0.0	14.5	9.0	18.0	15.5	19.0	16.0	21.0	15.5	20.5	15.0
2	3.5	0.5	12.0	10.5	17.0	14.0	21.0	16.0	18.0	14.5	19.5	15.0
3	3.5	0.0	11.0	10.0	20.0	13.5	19.0	17.0	18.5	15.0	19.5	15.5
4	1.0	0.5	10.5	9.0	17.0	15.5	18.0	16.0	20.0	16.0	18.5	15.5
5	2.0	0.0	10.5	8.5	---	---	16.0	14.0	18.5	12.0	18.0	12.0
6	2.0	0.0	10.5	7.0	---	---	15.5	13.0	18.0	12.0	17.0	12.0
7	3.5	0.0	---	---	---	---	18.0	13.5	19.0	15.5	18.0	11.0
8	4.5	0.0	---	---	---	---	19.5	14.0	19.0	15.0	16.5	13.5
9	6.0	0.0	7.0	5.5	18.0	16.0	20.0	14.0	16.0	11.0	16.5	10.0
10	5.5	0.0	10.0	5.5	16.0	11.5	17.0	15.5	15.0	14.0	16.0	11.5
11	4.5	1.0	10.5	5.0	15.0	10.0	21.0	15.5	19.0	11.5	16.5	10.5
12	5.5	0.0	14.5	5.0	13.5	9.0	21.5	15.5	18.0	14.5	16.0	13.5
13	1.0	0.0	16.5	8.0	15.5	11.5	20.0	17.0	21.0	15.0	14.5	12.0
14	3.5	0.0	12.0	10.0	18.5	13.5	22.0	18.0	18.5	15.0	15.5	13.5
15	1.5	1.0	14.0	11.0	21.0	15.5	24.0	18.5	19.0	14.0	16.0	11.5
16	---	---	16.5	12.0	18.5	17.0	24.0	20.0	19.5	15.5	15.5	10.5
17	6.0	1.5	18.0	12.0	19.5	16.0	24.5	20.0	16.5	14.0	16.0	12.0
18	8.0	1.0	18.5	11.5	19.0	14.5	21.5	17.0	17.0	14.5	18.5	15.0
19	8.0	2.0	19.5	13.0	17.0	16.0	23.0	18.0	16.5	15.5	18.0	14.5
20	4.5	2.0	15.5	14.0	19.5	16.0	21.0	18.0	---	---	15.0	11.0
21	8.0	1.0	20.0	13.5	18.5	17.0	23.0	18.0	20.5	13.5	13.5	8.5
22	4.5	2.0	21.5	14.5	18.0	16.5	23.5	19.0	21.0	14.5	15.5	13.0
23	6.5	3.5	21.5	13.0	17.0	15.0	22.0	19.0	21.0	15.5	13.0	8.5
24	8.0	3.5	19.5	14.0	15.0	14.0	23.0	18.5	21.0	18.0	11.0	9.5
25	6.5	3.5	19.5	13.0	14.5	13.5	20.0	16.5	23.5	18.5	15.0	11.0
26	8.5	2.0	18.5	10.5	17.0	13.0	19.0	14.0	23.5	18.5	16.0	13.0
27	8.0	3.0	20.0	11.0	---	---	19.0	13.5	26.0	18.5	18.0	15.0
28	10.0	3.0	21.0	12.0	---	---	18.0	13.5	21.0	18.0	15.0	10.0
29	12.0	4.0	21.5	13.0	20.5	13.0	19.0	14.0	21.5	17.0	11.5	10.0
30	14.0	4.5	19.5	13.5	18.0	16.0	18.5	13.0	20.0	15.5	13.0	11.5
31	---	---	18.5	15.5	---	---	17.0	13.5	20.5	14.5	---	---

01330000 GLOWEGEE CREEK AT WEST MILTON, N.Y.

LOCATION.--Lat 43°01'50", long 73°55'40", Saratoga County, specific conductance and temperature recorders at former gaging station at upstream side of highway bridge, 0.5 mile south of West Milton, 1.5 miles upstream from mouth, and 4 miles northwest of Ballston Spa.

DRAINAGE AREA.--26.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: March 1953 to September 1956, October 1964 to September 1972.
Water temperatures: March 1953 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum, 330 micromhos Nov. 18, Feb. 28; minimum, 135 micromhos May 4, 5.
Water temperatures: Maximum, 21.5°C June 21, July 22, 24; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance (1964-72): Maximum, 480 micromhos Aug. 31, Sept. 4, 1969; minimum, 125 micromhos Mar. 25, 1968.
Water temperatures: Maximum, 28.0°C July 24, 1961, July 3, 1966, July 16, 1968; minimum, freezing point on many days during winter periods.

REMARKS.--Specific conductance records are reported to the nearest five micromhos. No water temperature record Oct. 25, Apr. 16, May 6-8, June 26-28, and Aug. 20.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	310	290	290	275	285	280	260	255	285	275	285	280
2	305	295	290	290	305	285	260	260	285	275	300	280
3	300	300	290	285	310	310	260	260	285	280	280	250
4	300	285	290	290	310	305	260	260	280	280	250	245
5	295	285	290	280	310	305	260	255	280	280	250	245
6	310	295	280	280	320	310	260	255	280	275	260	250
7	305	290	285	270	320	300	265	260	280	275	270	260
8	295	290	285	280	300	290	270	265	280	280	290	270
9	290	285	290	285	290	290	265	260	280	280	280	280
10	285	260	290	290	290	290	270	265	280	280	285	280
11	270	260	290	280	290	230	275	270	280	280	285	285
12	300	270	285	280	260	230	280	275	280	280	290	285
13	305	295	290	285	270	260	285	280	280	270	285	285
14	295	295	290	285	280	270	290	280	315	255	285	280
15	295	295	290	290	280	255	295	280	270	255	280	270
16	295	290	295	290	260	220	305	295	260	260	285	280
17	300	295	315	290	235	220	305	300	265	260	290	235
18	295	290	330	315	235	235	305	300	270	265	235	210
19	295	290	320	310	245	235	320	290	270	265	215	210
20	295	290	310	300	250	245	300	295	265	265	235	215
21	290	290	300	290	280	250	295	285	270	265	245	235
22	295	290	290	290	270	260	300	290	275	270	245	240
23	300	295	290	285	270	260	300	280	275	275	240	215
24	300	295	300	290	270	260	295	285	280	275	230	215
25	295	285	300	290	260	250	295	270	275	275	240	230
26	290	285	290	285	265	250	270	270	280	270	245	240
27	285	285	290	285	270	265	275	270	280	270	255	245
28	285	285	290	290	270	245	280	275	330	275	250	245
29	290	280	290	290	245	245	285	280	320	285	250	230
30	290	280	290	280	250	245	285	275	---	---	245	240
31	280	275	---	---	255	250	280	275	---	---	240	230

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	230	205	200	185	220	210	195	195	265	265	255	255
2	220	205	190	185	235	215	200	195	270	265	260	255
3	225	220	190	175	235	235	210	200	275	240	260	260
4	235	225	175	135	235	210	220	210	245	240	260	260
5	240	230	185	135	240	210	230	220	255	245	260	250
6	250	240	185	185	240	220	240	230	255	255	255	255
7	250	245	190	180	220	210	250	240	260	255	260	250
8	260	250	195	190	235	220	250	250	260	260	260	255
9	260	240	190	180	230	210	250	250	260	260	255	250
10	245	225	200	190	230	215	255	250	260	260	250	245
11	225	220	205	200	240	230	255	255	260	260	245	240
12	220	185	210	205	240	240	255	250	260	260	240	240
13	200	175	220	210	245	240	260	250	265	260	240	235
14	185	170	220	220	245	240	260	250	260	260	240	235
15	190	170	220	210	270	250	250	250	260	255	235	235
16	195	190	220	190	255	240	255	250	260	260	240	235
17	175	140	215	200	245	240	270	235	260	260	250	240
18	170	150	225	215	250	245	260	260	260	260	260	250
19	170	160	230	205	255	205	260	255	260	260	250	220
20	165	160	235	230	255	245	255	255	265	260	240	240
21	175	160	235	230	265	195	260	255	260	260	240	240
22	170	170	240	230	210	180	260	255	260	260	240	240
23	170	165	240	240	215	180	265	260	265	260	245	240
24	175	170	240	240	200	180	260	260	265	265	245	245
25	175	175	240	240	215	190	260	260	265	260	245	245
26	175	175	240	240	235	215	260	260	260	260	250	245
27	180	175	250	240	245	235	260	255	270	260	260	250
28	180	180	245	235	255	245	260	255	270	265	260	260
29	185	180	240	235	260	255	265	260	270	260	260	260
30	195	185	245	240	270	180	265	265	260	260	265	260
31	---	---	240	220	---	---	265	260	260	255	---	---

01330000 GLOWEGEE CREEK AT WEST MILTON, N.Y.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.5	11.5	11.0	1.0	0.0	1.0	0.0	1.5	0.0	1.5	0.5
2	16.0	15.0	11.5	11.0	3.0	0.0	0.5	0.0	1.0	0.5	1.5	0.5
3	16.0	15.0	11.0	11.0	3.0	0.0	0.0	0.0	2.0	0.0	1.5	0.0
4	15.0	14.5	11.0	9.5	3.5	0.5	0.0	0.0	1.0	0.0	1.5	0.0
5	16.0	15.0	9.5	9.0	3.0	0.0	1.0	0.0	1.0	0.5	1.0	1.0
6	15.5	14.5	9.0	8.5	2.0	0.0	0.5	0.0	1.0	0.0	1.5	0.0
7	15.0	14.5	8.5	7.0	0.5	0.0	0.0	0.0	1.0	0.5	1.5	0.0
8	14.5	14.0	7.0	6.0	1.0	0.5	0.5	0.0	0.5	0.5	1.0	0.5
9	14.0	14.0	6.0	3.0	0.5	0.0	0.5	0.0	0.5	0.5	1.0	0.5
10	14.5	13.5	5.0	4.0	1.0	0.0	0.0	0.0	0.5	0.0	1.5	0.0
11	14.0	13.0	4.0	4.0	3.5	1.0	0.0	0.0	1.0	0.5	1.0	0.5
12	14.0	13.0	4.5	4.0	3.5	2.0	0.0	0.0	0.5	0.5	1.0	1.0
13	14.5	14.0	4.5	4.5	3.0	2.0	0.0	0.0	0.5	0.0	1.0	1.0
14	14.0	13.5	5.0	4.5	4.0	2.0	1.5	0.0	1.0	0.0	1.5	0.5
15	14.5	13.5	5.5	5.0	3.5	2.0	1.0	0.0	1.0	1.0	1.0	0.0
16	14.5	14.0	6.0	5.5	4.5	3.5	1.0	0.0	1.0	1.0	1.5	1.0
17	14.5	14.0	6.5	4.5	4.5	3.5	1.0	0.0	1.0	0.0	1.5	1.5
18	14.0	14.0	5.5	4.5	3.5	1.5	1.0	0.0	2.0	0.0	1.5	1.0
19	14.0	13.5	6.0	5.5	2.0	0.5	1.0	0.0	1.5	0.5	1.5	0.5
20	13.5	12.0	5.5	4.5	0.5	0.0	0.5	0.0	1.0	0.0	1.0	0.0
21	13.0	12.0	4.5	3.5	1.0	0.5	1.5	0.0	1.0	0.0	1.5	1.0
22	12.0	11.5	3.5	2.0	1.0	0.0	1.0	0.0	0.5	0.5	1.5	0.5
23	12.0	11.0	2.0	1.0	1.0	0.0	1.0	0.0	0.5	0.0	2.0	0.5
24	13.0	12.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	2.0	1.0
25	---	---	0.0	0.0	0.0	0.0	1.0	0.0	0.5	0.0	3.0	1.5
26	13.5	12.0	0.0	0.0	0.5	0.0	1.5	0.0	0.5	0.5	3.0	1.0
27	13.5	13.0	0.0	0.0	0.5	0.0	1.0	0.0	0.5	0.0	3.5	3.0
28	14.0	12.0	0.0	0.0	1.0	0.0	1.5	0.0	1.0	0.5	3.0	3.0
29	13.0	12.0	1.0	0.5	1.0	0.5	1.5	0.5	1.0	0.5	4.0	1.5
30	13.0	12.0	0.5	0.0	2.0	0.0	1.0	0.0	---	---	2.0	2.0
31	12.0	11.5	---	---	1.0	0.0	1.5	0.5	---	---	4.0	2.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	3.0	10.5	8.5	16.0	11.5	17.0	16.5	20.0	16.5	19.0	16.0
2	3.0	3.0	10.5	9.5	14.0	11.5	20.5	16.0	19.0	16.5	18.0	16.0
3	3.0	2.0	10.0	9.5	17.0	11.5	20.0	16.5	17.0	15.5	18.0	16.0
4	3.0	1.0	9.5	5.0	16.5	12.0	16.5	15.5	19.0	16.5	18.0	16.0
5	3.0	1.0	6.0	6.0	16.0	12.0	15.5	14.5	18.5	16.0	16.5	15.5
6	3.0	1.5	---	---	19.0	13.0	14.5	14.0	18.5	16.0	16.0	15.0
7	3.0	1.5	---	---	15.0	13.0	15.5	14.0	18.5	16.0	16.0	15.0
8	3.5	1.5	---	---	15.5	12.0	16.5	14.0	19.0	16.5	15.5	15.0
9	4.5	2.0	6.0	5.5	15.5	13.5	16.5	14.0	17.0	15.5	15.5	15.5
10	4.5	3.0	6.5	5.5	13.5	13.5	16.0	14.5	16.0	15.0	15.5	14.5
11	4.0	3.5	6.5	6.0	15.0	13.5	17.0	14.0	17.0	15.5	15.5	14.5
12	5.5	3.0	10.0	6.0	14.5	14.0	18.0	15.0	18.0	16.0	15.0	14.5
13	3.5	1.0	11.0	8.5	15.5	14.5	17.0	16.0	20.0	16.0	14.5	14.0
14	4.0	2.0	11.0	9.0	16.5	15.0	18.5	16.0	18.5	16.0	14.5	14.0
15	3.5	3.5	11.5	8.0	19.0	15.5	19.5	16.5	19.0	16.0	15.0	14.5
16	---	---	15.0	8.5	21.0	16.0	20.0	18.0	19.0	16.5	15.0	14.5
17	5.5	2.0	14.5	9.0	17.0	16.0	19.0	16.0	17.0	16.0	15.0	14.0
18	6.0	3.5	15.5	9.5	17.0	16.0	19.5	17.0	19.0	15.5	17.0	14.5
19	6.5	3.5	16.0	13.5	20.0	16.0	20.5	18.0	15.5	14.5	16.5	15.5
20	4.5	3.0	15.5	14.5	20.5	16.0	20.0	18.5	---	---	15.5	14.5
21	6.5	3.5	17.0	13.0	21.5	16.0	21.0	18.5	18.5	14.5	14.5	14.5
22	4.0	3.5	16.5	14.0	21.0	16.5	21.5	19.0	18.5	15.0	15.0	14.5
23	5.5	4.0	15.5	13.0	20.5	16.5	21.0	19.0	19.0	15.0	14.5	14.0
24	7.0	4.5	14.0	13.0	18.5	16.5	21.5	19.0	19.0	16.5	14.0	13.5
25	6.0	4.0	14.0	12.0	16.5	16.0	20.0	18.5	21.0	17.0	13.5	13.0
26	6.5	3.5	15.0	12.0	---	---	19.0	16.5	21.0	17.0	14.5	13.5
27	6.0	4.0	14.5	12.0	---	---	19.0	16.0	19.5	17.0	15.5	14.0
28	7.0	4.0	16.5	11.0	---	---	18.0	16.0	19.0	17.0	15.0	12.0
29	8.5	5.0	14.5	13.5	21.0	19.0	19.5	16.0	19.5	16.5	12.0	12.0
30	9.5	5.5	14.5	13.5	21.0	18.0	19.0	16.0	19.0	16.0	12.0	11.5
31	---	---	17.0	11.5	---	---	18.0	16.5	19.0	16.0	---	---

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, N.Y.

LOCATION.--Lat 43°02'25", long 73°34'30", Saratoga County, temperature recorder at gaging station on left bank 500 ft downstream from Glowegee Creek, 1 mile east of West Milton, and 3.5 miles northwest of Ballston Spa.

DRAINAGE AREA.--90 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1953 to June 1955.
Water temperatures: October 1952 to June 1970; June 1971 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 23.0°C July 19, 22, 24; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, (1952-69,71-72) 28.5°C July 10, 1955; minimum, (1952-70, 72) freezing point on many days during winter periods.

REMARKS.--No water temperature record Oct. 1-5.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
APR.											
20...	1455	1090	5.2	260	10	10	3.6	2.7	.4	37	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
APR.										
20...	30	11	4.2	.0	.20	40	9	98	7.8	4.0

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

(CONTINUOUS ETHYL ALCHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	11.5	9.5	1.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
2	---	---	11.5	10.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
3	---	---	11.0	9.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
4	---	---	9.0	7.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5	---	---	7.0	5.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
6	15.0	13.0	6.5	4.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
7	13.5	11.5	6.5	5.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
8	11.5	9.5	5.0	2.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
9	10.5	9.0	2.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
10	11.0	10.0	2.5	2.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
11	11.5	10.5	3.0	2.5	2.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
12	11.0	10.0	3.5	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
13	10.5	9.0	4.0	3.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
14	12.5	10.0	3.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
15	13.0	11.0	2.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
16	13.0	10.5	4.0	2.0	2.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
17	13.0	12.0	3.5	2.5	2.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
18	12.0	10.0	4.5	3.5	2.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0
19	11.0	8.5	5.0	3.5	1.0	1.0	0.0	0.0	0.0	0.0	1.5	1.0
20	10.5	9.0	5.0	4.5	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
21	9.5	8.0	4.5	4.0	1.0	1.0	0.0	0.0	0.0	0.0	2.0	1.0
22	10.0	8.0	4.0	3.5	1.0	1.0	0.0	0.0	0.0	0.0	2.0	2.0
23	11.0	9.5	3.5	1.0	1.0	1.0	0.0	0.0	0.0	0.0	2.0	1.5
24	11.0	9.5	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.5	1.5
25	11.0	10.5	1.5	0.5	1.0	1.0	0.0	0.0	0.0	0.0	2.5	1.5
26	12.5	11.0	1.0	0.5	1.0	1.0	0.0	0.0	0.0	0.0	2.5	1.5
27	12.5	11.5	0.5	0.5	1.0	1.0	0.0	0.0	0.0	0.0	3.0	1.5
28	13.0	11.0	1.5	0.5	1.0	1.0	0.0	0.0	0.0	0.0	4.0	1.5
29	12.5	10.5	2.0	0.5	1.0	1.0	0.0	0.0	0.0	0.0	4.5	2.0
30	11.0	9.0	1.5	0.5	1.5	1.0	0.0	0.0	---	---	3.5	2.0
31	10.5	8.5	---	---	1.5	0.5	0.0	0.0	---	---	4.0	2.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	2.0	11.5	10.0	17.0	16.0	16.0	14.5	19.5	16.0	19.0	16.0
2	3.0	2.0	11.5	10.0	16.0	14.5	18.0	15.5	19.0	16.5	18.5	16.0
3	3.0	1.5	10.0	10.0	17.5	13.5	17.5	16.0	16.5	16.5	18.5	16.5
4	2.5	1.5	10.0	10.0	17.0	16.0	16.5	15.5	17.5	16.5	18.0	17.0
5	2.5	1.0	10.0	9.0	18.0	15.5	15.5	14.0	18.0	14.5	17.0	13.5
6	3.0	1.5	11.0	8.5	18.0	16.0	15.0	13.5	17.0	14.0	17.5	13.5
7	3.5	1.5	11.0	10.5	16.5	15.0	16.5	13.0	17.0	15.5	17.5	13.0
8	4.5	1.5	10.5	9.0	15.5	14.0	16.5	14.0	17.5	16.0	17.0	14.5
9	5.0	2.0	9.0	8.5	16.5	14.0	17.5	14.5	18.0	15.5	17.0	16.0
10	5.0	2.5	9.5	8.0	16.0	13.0	16.5	15.5	16.5	15.0	16.5	13.0
11	4.0	2.5	10.0	8.5	15.0	11.5	18.5	15.0	17.5	13.5	16.5	12.5
12	5.0	2.0	12.0	8.0	13.0	11.5	20.0	16.0	16.5	15.5	16.5	14.5
13	3.0	1.5	14.5	10.5	14.5	12.5	19.0	17.5	19.0	15.0	16.0	14.0
14	3.5	1.5	14.0	12.5	17.0	13.5	19.5	17.5	18.0	15.5	15.0	14.5
15	2.0	1.5	13.0	12.0	19.0	16.0	21.5	18.0	17.5	14.0	16.0	13.0
16	3.5	1.5	15.0	12.5	18.0	17.0	21.5	19.0	16.5	13.5	16.5	13.0
17	5.0	3.0	15.5	13.5	18.0	16.0	22.0	19.5	15.5	14.5	16.5	14.0
18	5.0	1.5	16.5	14.5	17.5	15.5	21.5	19.0	16.0	14.5	18.0	16.0
19	6.0	3.5	17.0	14.5	17.0	16.0	23.0	19.5	18.0	15.0	18.0	16.5
20	6.0	3.0	16.0	14.0	17.5	15.5	21.5	20.0	19.0	14.5	16.5	14.5
21	5.5	2.0	17.5	13.5	17.0	16.5	22.5	19.5	19.0	14.5	15.0	13.0
22	5.5	4.0	19.0	15.5	17.0	16.5	23.0	20.0	19.0	15.0	16.5	14.5
23	5.5	4.0	18.5	14.5	18.0	15.0	22.0	20.5	19.5	16.5	15.0	12.5
24	7.0	5.5	17.5	15.0	15.0	14.5	23.0	20.0	19.5	18.0	13.5	12.5
25	7.0	5.5	18.0	14.0	14.5	14.0	21.5	20.0	20.0	18.0	15.0	13.0
26	7.0	4.5	17.0	13.0	14.5	13.5	20.5	18.0	20.5	18.5	16.5	14.5
27	6.5	5.5	17.0	12.5	15.0	14.0	20.5	17.5	20.0	19.0	17.5	16.0
28	8.0	5.5	18.5	13.5	16.0	14.0	18.5	16.5	19.5	18.0	16.5	14.0
29	9.5	6.5	19.0	14.5	17.5	15.0	19.5	16.0	19.0	17.5	14.5	13.5
30	10.0	7.5	18.0	15.0	17.0	15.0	19.0	15.5	19.0	17.0	14.5	13.0
31	---	---	17.5	16.0	---	---	17.5	15.5	19.0	16.0	---	---

01331093 HUDSON RIVER AT STILLWATER, N.Y.

LOCATION.--Lat 42°56'16", long 73°39'04", Saratoga and Rensselaer Counties, at bridge on state Highway 67 in Stillwater and 0.9 mile upstream from Hoosic River.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 27...	1510	4.1	240	30	10	1.9	4.3	.7	25	0	21
NOV. 30...	1545	4.4	160	0	11	2.6	3.5	.7	33	0	27
JAN. 05...	1245	5.4	100	0	11	2.7	4.6	.6	32	0	26
FEB. 02...	1200	5.9	140	0	11	2.5	4.1	.6	32	0	26
29...	1345	6.1	110	0	10	2.1	4.1	.5	27	0	22
MAR. 28...	1400	6.4	160	0	11	2.4	3.4	.6	32	0	26
APR. 26...	1300	5.8	80	0	10	2.2	3.1	.4	28	0	23
MAY 23...	1230	4.8	50	0	7.5	1.6	2.3	.4	19	0	16
JUNE 20...	1405	5.0	180	0	9.5	2.0	2.8	.4	26	0	21
JULY 18...	1225	5.0	100	0	12	2.2	2.9	.4	30	0	25
AUG. 15...	1430	4.9	150	0	11	2.3	4.0	.4	30	0	25
SEP. 12...	1305	5.2	110	0	11	2.2	4.4	.5	28	0	23

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 27...	15	4.9	.0	.52	1.2	.008	.44	.24	.020	56	6
NOV. 30...	13	5.0	.0	.32	.82	.006	.26	.23	.020	58	20
JAN. 05...	17	6.7	.0	.46	1.3	.005	.61	.24	.034	66	6
FEB. 02...	16	6.0	.0	.77	1.5	.005	.43	.32	.022	65	2
29...	14	5.8	.0	.34	.84	.005	.14	.36	.019	58	11
MAR. 28...	13	5.0	.0	.27	.94	.010	.27	.39	.022	60	8
APR. 26...	13	4.3	.0	.36	.90	.008	.15	.39	.029	55	21
MAY 23...	12	2.6	.0	.57	1.0	.004	.05	.44	.021	43	12
JUNE 20...	11	4.0	.0	.63	2.1	.004	.90	.63	.024	52	9
JULY 18...	13	4.3	.0	.43	.88	.024	.15	.28	.025	57	6
AUG. 15...	11	5.5	.0	.43	1.2	.077	.32	.45	.019	57	3
SEP. 12...	15	4.6	.0	.73	1.8	.070	.56	.49	.023	61	4

01331095 HUDSON RIVER AT STILLWATER, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
27...	33	12	93	6.9	14	.04	7	0	--	<.5
NOV.										
30...	38	11	100	6.8	16	.04	--	--	--	--
JAN.										
05...	39	12	112	6.9	26	.05	--	--	--	--
FEB.										
02...	38	12	105	6.8	17	.05	5	20	62	<.5
29...	34	11	93	7.0	13	.04	8	0	21	<.5
MAR.										
28...	37	11	96	7.2	11	.04	--	--	--	--
APR.										
26...	34	11	90	7.5	10	.02	--	--	--	--
MAY										
23...	25	10	70	6.9	10	.02	--	--	--	--
JUNE										
20...	32	11	83	7.1	11	.06	6	0	18	<.5
JULY										
18...	39	14	93	7.2	11	.03	--	--	--	--
AUG.										
15...	37	12	99	7.0	15	.03	--	--	--	--
SEP.										
12...	37	14	102	7.1	21	.06	10	0	8	<.5

01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.

LOCATION.--Lat 42°48'33", long 73°17'12", Rensselaer County, N.Y.-Bennington County, Vt., at bridge on New York-Vermont State Highway 346, at state line, and 1.3 miles northwest of North Pownal, Vt.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
OCT.								
06...	1100	204	1.2	.70	.22	355	7.6	14.0
NOV.								
03...	1130	440	.83	.50	.19	282	7.2	14.0
DEC.								
02...	1230	253	.96	.80	.19	350	6.5	.0
JAN.								
06...	1130	382	.78	.60	.15	475	7.4	.0
FEB.								
08...	1100	309	1.8	1.6	.17	331	8.4	.0
MAR.								
02...	1130	1060	1.5	1.5	.61	318	7.4	2.5
APR.								
03...	1130	554	.80	.80	.10	258	8.3	2.0
MAY								
09...	1100	2350	.68	.50	.022	134	7.8	8.0
JUNE								
06...	1145	743	.61	.60	.081	209	8.2	16.0
JULY								
05...	1345	1050	1.4	.40	.079	182	7.5	15.0
AUG.								
09...	0930	175	1.1	1.3	.27	349	7.6	19.0
SEP.								
07...	1130	117	.93	1.6	.24	409	8.1	17.5

DATE	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO- PHYLL A (UG/L)	FECAL COLI- FORM (COL. PER 100 ML)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT.							
06...	7	7.3	12	6.5	3700	220000	.08
NOV.							
03...	9	7.9	22	7.7	21000	240000	.05
DEC.							
02...	6	8.3	10	4.8	6100	22000	.09
JAN.							
06...	4	--	11	.8	4300	13000	.04
FEB.							
08...	10	--	9	3.8	4500	38000	.12
MAR.							
02...	40	12.6	41	5.5	3000	26000	.04
APR.							
03...	10	11.8	6	1.9	3400	26000	.03
MAY							
09...	10	10.8	13	1.5	3800	14000	.04
JUNE							
06...	6	7.8	11	1.1	1600	41000	.01
JULY							
05...	6	9.0	8	.6	3600	32000	.02
AUG.							
09...	10	7.8	10	20	18000	170000	.08
SEP.							
07...	3	8.8	--	2.6	2400	40000	.07

01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)
SEP. 07...	41	43	156	0	128	.1	240	6	1.0	1.0

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
SEP. 07...	3	1	0	230	4	90	<.5	3	2	20

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)	DI-AZINON (UG/L)
SEP. 07...	.00	E.0	.00	.00	.00	.00	.00	.00	.00	.00	.0	.00

DATE	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP. 07...	.00	.00	.00	.00	.00	.00	.00	.00	.02	E.0	.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)
SEP. 07...	.0	E.0	2.5	.0	<.1	.0	.0	.0

DATE	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
SEP. 07...	.0	.0	.0	.00	.0	.2	.0	<5.0

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 07...	2.1	6.4	<.1	<.4	4.0	3.2	.5	.4

01333360 HOOSIC RIVER AT NORTH PETERSBURG, N.Y.

LOCATION.--Lat 42°49'35", long 73°19'21", Rensselaer County, at bridge on County Highway 11, 1,200 ft upstream from Little Hoosic River and 0.5 mile northeast of North Petersburg.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 13...	1010	359	4.1	90	0	22	5.5	12	1.6	83	0
NOV. 09...	0845	340	4.4	100	0	25	6.8	13	1.5	88	0
DEC. 14...	0920	781	3.6	50	20	20	5.3	10	1.0	66	0
FEB. 16...	0900	424	3.6	30	0	23	5.6	25	2.6	76	0
MAR. 14...	0915	377	4.0	50	0	24	6.4	14	1.8	86	0
APR. 11...	0845	422	3.7	120	60	24	6.3	11	1.3	82	0
MAY 09...	0900	2400	3.5	70	0	16	4.1	4.2	1.0	55	0
JUNE 06...	0915	755	3.6	20	0	24	5.3	8.9	1.0	84	0
JULY 05...	0955	856	3.9	30	0	22	5.1	4.4	.7	77	0
AUG. 01...	0915	35	3.0	30	20	41	11	16	1.9	143	0
29...	0945	198	4.2	20	0	33	8.1	14	2.5	117	0
SEP. 26...	0900	112	3.7	50	0	42	12	26	2.6	156	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT. 13...	68	16	12	.1	.52	1.4	.104	.16	.69	.19	119
NOV. 09...	72	19	16	.1	.84	1.9	.120	.48	.52	.19	134
DEC. 14...	54	18	12	.1	.45	1.5	.038	.35	.70	.11	107
FEB. 16...	62	23	36	.1	.80	2.3	.010	.13	1.3	.11	163
MAR. 14...	71	19	19	.1	.80	2.3	.120	.40	1.0	.21	137
APR. 11...	67	18	16	.1	.50	1.7	.085	.32	.84	.14	126
MAY 09...	45	15	6.1	.0	.32	1.0	.022	.06	.62	.12	80
JUNE 06...	69	15	11	.0	.52	1.6	.005	.25	.90	.071	115
JULY 05...	63	12	6.5	.0	.09	.62	.007	.10	.43	.070	95
AUG. 01...	117	26	21	.2	.38	1.4	.091	.07	.91	.12	195
29...	96	24	19	.0	1.0	2.4	.103	.08	1.3	.18	170
SEP. 26...	128	33	25	.2	.61	2.3	.280	.03	1.3	.17	229

01333360 HOOSIC RIVER AT NORTH PETERSBURG, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
13...	20	78	10	211	7.3	15	.05	--	--	--	--
NOV.											
09...	10	90	18	236	7.3	15	.05	6	20	--	<.5
DEC.											
14...	16	72	18	189	7.0	22	.04	--	--	--	--
FEB.											
16...	38	80	18	288	7.3	27	.06	--	--	--	--
MAR.											
14...	27	86	16	249	7.4	21	.04	--	--	--	--
APR.											
11...	20	86	19	231	6.9	21	.04	--	--	--	--
MAY											
09...	67	57	12	138	7.8	14	.02	5	20	9	<.5
JUNE											
06...	25	82	13	207	7.8	7	.04	--	--	--	--
JULY											
05...	15	76	13	175	7.9	6	.02	--	--	--	--
AUG.											
01...	8	150	30	350	8.1	4	.04	--	--	--	--
29...	19	120	20	299	7.8	10	.05	--	--	--	--
SEP.											
26...	8	150	26	408	7.8	7	.06	--	--	--	--

01335770 HUDSON RIVER AT WATERFORD, N.Y.

LOCATION.--Lat 42°47'17", long 73°40'34", Saratoga County, at Waterford water supply intake on west shore and 0.3 mile upstream from bridge on U.S. Highway 4 in Waterford.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV.											
30...	1645	E5820	4.5	160	0	13	3.0	4.3	1.2	38	0
JAN.											
05...	1330	E5900	5.4	90	0	15	3.5	5.0	.7	43	0
FEB.											
02...	1115	E6900	5.6	140	0	14	3.2	4.8	.7	42	0
29...	1100	E7700	6.0	130	0	11	2.5	4.8	.5	31	0
MAR.											
28...	1300	E11800	6.1	170	0	13	1.8	4.0	.6	34	0
APR.											
26...	1115	E20500	5.6	180	60	13	2.9	3.9	.7	35	0
MAY											
23...	1130	E20100	4.7	80	0	10	2.0	2.5	.4	25	0
JUNE											
20...	1455	E10700	5.0	250	20	15	3.7	4.1	.6	36	0
JULY											
18...	1135	E8260	4.9	140	0	12	2.6	3.4	.5	37	0
AUG.											
15...	1510	E5960	4.5	140	0	14	3.1	5.8	.6	38	0
SEP.											
12...	1200	E4910	5.4	150	0	14	2.6	5.8	.6	33	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
NOV.											
30...	31	13	7.8	.0	.33	1.1	.012	.52	.30	.040	68
JAN.											
05...	35	16	9.4	.0	.42	1.2	.006	.55	.32	.025	79
FEB.											
02...	34	15	7.9	.0	.34	1.1	.006	.21	.54	.018	75
29...	25	15	6.9	.0	.44	1.1	.008	.17	.50	.028	65
MAR.											
28...	28	15	8.3	.0	.36	1.2	.007	.51	.41	.020	68
APR.											
26...	29	14	9.2	.0	.31	.78	.005	.07	.40	.028	69
MAY											
23...	21	12	4.4	.0	.42	.90	.003	.05	.43	.021	51
JUNE											
20...	30	13	8.8	.0	.43	1.5	.002	.50	.64	.028	72
JULY											
18...	30	14	5.4	.0	.59	1.4	.014	.52	.37	.048	64
AUG.											
15...	31	14	10	.0	.55	1.5	.045	.35	.65	.025	75
SEP.											
12...	27	17	8.5	.0	.60	1.6	.105	.20	.70	.026	75

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.											
30...	6	45	14	117	7.0	14	.04	4	30	24	<.5
JAN.											
05...	3	52	17	134	7.1	18	.03	--	--	--	--
FEB.											
02...	2	48	14	127	7.1	7	.03	4	30	23	<.5
29...	9	38	12	109	7.0	16	.06	2	0	38	<.5
MAR.											
28...	5	40	12	114	7.3	8	.04	--	--	--	--
APR.											
26...	17	44	16	118	7.3	15	.03	--	--	--	--
MAY											
23...	12	33	13	86	7.1	7	.02	--	--	--	--
JUNE											
20...	9	53	23	123	7.2	10	.04	5	0	16	<.5
JULY											
18...	24	41	10	107	7.3	7	.02	--	--	--	--
AUG.											
15...	4	48	17	133	7.1	14	.04	--	--	--	--
SEP.											
12...	4	46	19	126	7.3	18	.04	10	70	0	<.5

01335771 HUDSON RIVER AT MONITOR AT WATERFORD, N.Y.

LOCATION.--Lat 42°47'17", long 73°40'33", Saratoga County, at New York State Water Quality Surveillance monitor on west bank, 300 feet south of bridge on U.S. Highway 4 in Waterford.

PERIOD OF RECORD.--Chemical analyses: September 1971 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT.										
27...	1545	E6000	4.2	210	0	18	3.3	5.3	1.0	42
NOV.										
30...	1730	E5820	4.8	190	0	16	3.7	5.3	.9	44
JAN.										
05...	1420	E5900	5.5	120	0	17	3.8	5.4	.8	46
FEB.										
02...	1030	E6900	5.6	230	0	20	3.7	5.6	.8	46
29...	1215	E7700	6.1	150	0	18	2.9	6.8	.7	35
MAR.										
28...	1215	E11800	6.1	210	0	16	3.0	7.0	.8	33
APR.										
26...	1200	E20500	5.5	100	30	12	2.7	3.2	.6	32
MAY										
23...	1045	E20100	4.8	90	0	13	2.3	4.8	.5	25
JUNE										
20...	1440	E10700	4.7	240	20	13	2.8	3.7	.5	34
JULY										
18...	1100	E8260	4.9	150	0	14	3.0	4.2	.7	40
AUG.										
15...	1525	E5960	4.6	150	0	16	3.3	6.1	.7	40
SEP.										
12...	--	E4910	6.2	180	0	18	3.0	5.2	1.0	43

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.										
27...	0	34	16	13	.0	.62	.10	82	27	59
NOV.										
30...	0	36	19	10	.1	.13	.050	81	6	55
JAN.										
05...	0	38	17	11	.0	.24	.065	83	5	58
FEB.										
02...	0	38	16	18	.1	1.1	.024	93	2	65
29...	0	29	16	20	.0	.23	.032	88	8	57
MAR.										
28...	0	27	16	18	.0	.22	.049	83	5	52
APR.										
26...	0	26	13	6.5	.0	.87	.19	59	30	41
MAY										
23...	0	21	13	14	.0	.44	.028	65	14	42
JUNE										
20...	0	28	13	5.9	.0	.80	.034	60	14	44
JULY										
18...	0	33	14	7.4	.0	.52	.060	68	10	47
AUG.										
15...	0	33	15	13	.1	.78	.079	79	21	54
SEP.										
12...	0	35	20	11	.0	.83	.14	86	55	57

CONTINUED NEXT PAGE

01335771 HUDSON RIVER AT MONITOR AT WATERFORD, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
27...	24	150	7.1	21	--	.04	4	0	--	<.5
NOV.										
30...	19	145	6.9	16	--	.05	--	--	--	--
JAN.										
05...	20	149	7.0	21	--	.04	--	--	--	--
FEB.										
02...	27	171	7.1	8	--	.04	5	20	18	<.5
29...	28	164	7.0	18	--	.05	4	0	18	<.5
MAR.										
28...	25	150	7.2	16	--	.04	--	--	--	--
APR.										
26...	15	104	7.3	--	69	.02	--	--	--	--
MAY										
23...	21	121	7.0	6	--	.03	--	--	--	--
JUNE										
20...	16	105	7.4	11	--	.03	5	0	14	<.5
JULY										
18...	15	123	7.2	7	--	.03	--	--	--	--
AUG.										
15...	21	146	7.2	18	--	.04	--	--	--	--
SEP.										
12...	22	155	7.0	15	--	.06	9	0	20	<.5

01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, N.Y.

LOCATION.--Lat 43°15'52", long 75°26'12", Oneida County, temperature recorder at gaging station on right bank at Rome Fish Hatchery, 1.0 mile downstream from Delta Dam, and 4.0 miles north of Rome.

DRAINAGE AREA.--150 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1960 to September 1962, October 1963 to December 1965, September 1966 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 16.0°C on June 15, 21, 22, 24-26; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures (1960-62, 1963-72): Maximum, 24.0°C on several days during September 1961 and July 1962; minimum, freezing point on many days during winter periods 1967, 1971, and 1972.

REMARKS.--Prior to May 1964 water temperature measurements were made at Delta Dam, 1 mile upstream from present site. Thermograph installed September 1966. Recorder stopped Nov. 9 to Dec. 8, range in temperature 2.0°C to 10.5°C.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	15.0	13.5	13.5	---	---	0.0	0.0	0.5	0.0	0.5	0.5
2	15.0	15.0	13.5	13.5	---	---	0.0	0.0	0.5	0.0	1.0	0.5
3	15.0	15.0	13.5	13.0	---	---	0.0	0.0	0.0	0.0	0.5	0.5
4	15.0	15.0	13.0	13.0	---	---	0.0	0.0	0.0	0.0	0.5	0.5
5	15.5	15.0	12.0	12.0	---	---	0.0	0.0	0.0	0.0	0.5	0.5
6	15.0	15.0	12.0	12.0	---	---	0.0	0.0	0.0	0.0	0.5	0.5
7	15.5	15.0	12.0	11.0	---	---	0.0	0.0	0.0	0.0	0.5	0.5
8	15.0	15.0	11.0	10.5	---	---	0.0	0.0	0.0	0.0	0.5	0.5
9	15.0	15.0	---	---	2.0	2.0	0.0	0.0	0.5	0.0	0.5	0.5
10	15.0	15.0	---	---	2.0	1.5	0.0	0.0	0.0	0.0	1.0	0.5
11	15.0	14.5	---	---	1.5	1.0	0.0	0.0	0.0	0.0	1.0	1.0
12	14.5	14.5	---	---	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
13	14.5	14.0	---	---	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
14	14.0	14.0	---	---	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
15	14.0	13.5	---	---	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
16	13.5	13.5	---	---	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
17	13.5	13.0	---	---	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5
18	13.5	13.0	---	---	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5
19	13.5	13.0	---	---	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
20	13.5	13.5	---	---	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
21	13.5	13.5	---	---	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0
22	13.5	13.5	---	---	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0
23	13.5	13.5	---	---	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5
24	13.5	13.5	---	---	0.0	0.0	0.0	0.0	0.5	0.0	1.0	0.5
25	13.5	13.5	---	---	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
26	13.5	13.5	---	---	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0
27	13.5	13.5	---	---	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0
28	13.5	13.5	---	---	0.0	0.0	0.5	0.5	0.5	0.5	1.0	0.0
29	13.5	13.5	---	---	0.0	0.0	0.5	0.5	0.5	0.5	1.0	0.5
30	13.5	13.5	---	---	0.0	0.0	0.5	0.5	---	---	0.5	0.5
31	13.5	13.5	---	---	0.0	0.0	0.5	0.5	---	---	1.0	0.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.0	0.5	3.5	3.0	11.0	5.5	15.0	15.0	11.5	11.0	14.0	13.5
2	1.0	0.5	4.0	2.0	6.0	5.5	15.0	14.0	11.5	11.0	14.0	13.5
3	1.0	1.0	3.5	3.0	6.5	6.0	14.5	14.5	11.5	11.0	14.0	13.5
4	1.0	1.0	5.5	3.5	6.5	5.5	15.0	14.5	11.5	11.0	14.0	14.0
5	1.0	1.0	5.5	5.5	6.5	5.5	15.0	14.5	13.0	11.5	14.5	14.0
6	1.5	1.0	5.5	3.5	8.0	6.0	15.0	14.5	13.0	12.0	14.5	14.0
7	3.0	1.0	4.5	4.0	10.0	7.0	15.0	14.5	12.0	12.0	14.5	14.0
8	3.0	1.5	4.5	4.5	10.5	9.0	14.5	13.5	12.0	12.0	14.0	14.0
9	3.0	1.5	4.5	4.5	9.0	7.0	14.0	13.5	12.0	12.0	14.0	14.0
10	2.0	1.5	4.5	4.5	10.0	8.0	14.0	14.0	13.5	12.0	14.5	14.0
11	1.5	1.5	4.5	4.5	13.5	10.0	14.0	13.5	13.5	13.0	14.5	14.0
12	3.0	1.0	4.5	4.5	14.0	13.5	14.0	13.5	13.0	13.0	14.0	14.0
13	1.0	1.0	5.0	4.0	14.5	14.0	13.5	13.5	13.0	13.0	14.0	14.0
14	1.5	1.0	4.0	4.0	15.5	14.5	13.5	13.5	13.0	13.0	14.0	14.0
15	1.0	1.0	5.5	4.0	16.0	14.5	13.5	13.0	14.0	13.0	14.5	14.0
16	1.0	1.0	7.0	5.0	15.0	14.5	13.5	13.0	14.0	13.5	14.5	14.0
17	1.0	1.0	8.0	5.0	15.0	14.5	13.5	13.5	14.0	14.0	14.0	13.5
18	1.0	0.5	11.0	4.5	15.5	15.0	13.5	11.5	14.0	13.5	14.0	13.5
19	0.5	0.5	8.5	5.0	15.5	15.5	13.0	11.5	14.0	13.5	14.0	13.5
20	0.5	0.5	7.0	5.0	15.5	15.0	12.0	12.0	14.5	13.5	14.5	14.0
21	0.5	0.5	10.0	7.0	16.0	15.0	12.0	12.0	14.5	14.0	14.5	14.0
22	0.5	0.5	10.0	9.0	16.0	15.5	12.0	11.5	14.5	14.0	14.0	14.0
23	0.5	0.5	9.5	6.5	15.5	15.5	11.5	11.5	14.0	13.5	14.5	14.0
24	1.0	0.5	9.0	7.0	16.0	15.5	12.0	11.5	14.0	13.5	14.5	14.5
25	1.5	1.0	9.0	5.5	16.0	16.0	12.0	12.0	13.5	13.5	14.5	14.0
26	1.5	1.0	8.5	6.5	16.0	15.0	12.0	12.0	13.5	13.5	14.0	13.5
27	2.0	1.5	8.5	7.0	15.5	15.0	12.0	11.5	13.5	13.5	14.0	13.5
28	2.0	1.5	9.5	8.0	15.0	14.5	12.0	11.5	13.5	13.5	14.5	14.0
29	3.0	2.0	11.0	8.5	15.0	14.5	11.5	11.0	13.5	13.5	14.0	14.0
30	3.5	2.0	11.5	11.0	15.0	14.5	12.0	11.0	14.0	13.5	14.0	14.0
31	---	---	11.5	11.0	---	---	11.5	11.0	14.0	13.5	---	---

01349520 CAYADUTTA CREEK AT FONDA, N.Y.

LOCATION.--Lat 42°57'10", long 74°22'49", Montgomery County, at railroad bridge, 0.1 mile downstream from bridge on State Highway 5 in Fonda and 0.2 mile upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 19...	1240	8.5	80	50	70	9.0	150	3.7	219	0	180
NOV. 16...	1300	8.7	70	50	66	9.2	68	2.9	219	0	180
DEC. 28...	1230	6.3	240	40	53	6.4	95	3.1	157	0	129
JAN. 25...	1220	7.0	180	90	60	7.3	100	3.7	192	0	157
FEB. 22...	1210	9.3	80	100	73	8.7	100	3.0	180	0	148
MAR. 21...	1210	7.0	100	0	53	7.0	65	2.5	170	0	139
APR. 18...	1230	5.1	20	0	37	4.9	25	1.5	110	0	90
MAY 16...	1200	5.8	10	0	52	6.1	40	2.0	157	0	129
JUNE 13...	1200	7.5	110	40	67	7.0	130	3.5	226	0	185
JULY 11...	1200	8.6	40	0	63	8.4	42	2.1	207	0	170
AUG. 08...	1210	8.6	120	20	74	8.9	120	3.6	246	0	202
SEP. 05...	1210	7.5	70	0	68	9.8	60	3.4	236	0	194

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 19...	110	180	.7	4.2	11	.009	7.5	.04	1.6	659	51
NOV. 16...	59	95	.2	3.5	7.5	.080	3.9	.02	2.7	434	36
DEC. 28...	45	140	.1	3.8	6.0	.056	2.0	.14	.56	435	128
JAN. 25...	51	160	.2	6.6	11	.006	5.3	.04	.83	500	181
FEB. 22...	71	140	.4	1.5	14	6.8	1.2	5.2	.28	542	27
MAR. 21...	43	88	.2	2.1	5.5	.102	2.8	.47	.30	358	26
APR. 18...	26	33	.5	1.2	3.0	.006	.09	1.7	.21	196	59
MAY 16...	37	57	.2	.92	3.0	.010	.10	2.0	.13	287	21
JUNE 13...	88	170	.5	1.8	6.6	.010	4.8	.02	--	593	19
JULY 11...	31	56	.5	1.2	5.7	.192	.20	4.1	.36	334	11
AUG. 08...	69	190	.7	1.9	11	.182	9.2	.42	.26	612	21
SEP. 05...	47	89	.3	2.6	12	1.2	7.8	.92	.51	422	19

01349320 CAYADUTTA CREEK AT FONDA, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 19...	210	32	1120	7.3	--	158	.41	--	--	--	--
NOV. 16...	200	23	710	7.3	--	65	.18	0	120	--	<.5
DEC. 28...	160	30	774	7.5	--	144	.14	--	--	--	--
JAN. 25...	180	22	892	7.7	--	145	.18	--	--	--	--
FEB. 22...	220	70	928	7.4	44	--	.25	--	--	--	--
MAR. 21...	160	22	641	7.5	57	--	.10	--	--	--	--
APR. 18...	110	22	344	7.1	22	--	.07	--	--	--	--
MAY 16...	160	26	502	7.9	28	--	.08	--	--	--	--
JUNE 13...	200	11	1030	7.3	51	--	.02	--	--	--	--
JULY 11...	190	22	586	7.8	22	--	.14	2	0	11	<.5
AUG. 08...	220	20	1040	7.4	41	--	.29	--	--	--	--
SEP. 05...	210	17	744	7.6	42	--	.21	--	--	--	--

01349527 MOHAWK RIVER AT FONDA, N.Y.

LOCATION.--Lat 42°57'01", long 74°22'21", Montgomery County, at dock of State Department of Transportation Erie (Barge) Canal terminal in Fonda, 0.1 mile upstream from bridge on State Highway 30A, and 0.4 mile downstream from Cayadutta Creek.

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
19...	1210	4.5	40	0	30	4.0	14	1.3	88	0	72
NOV.											
16...	1215	4.6	20	10	33	5.8	10	1.2	95	0	78
DEC.											
28...	1210	8.2	50	0	36	5.3	30	1.7	101	0	83
JAN.											
25...	1200	5.7	10	0	42	5.9	45	2.0	126	0	103
MAR.											
21...	1140	5.6	130	0	33	5.6	14	1.5	101	0	83
APR.											
18...	1200	4.5	70	0	30	4.3	8.3	1.3	89	0	73
MAY											
16...	1140	4.2	10	0	30	4.3	11	1.3	93	0	76
JUNE											
13...	1135	4.2	40	0	29	4.4	6.0	.9	85	0	70
JULY											
11...	1140	4.4	30	0	38	6.3	6.4	1.1	117	0	96
AUG.											
08...	1145	2.1	50	0	33	5.6	8.5	1.0	95	0	78
SEP.											
05...	1145	2.0	50	0	37	6.2	7.4	1.1	105	0	86

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
19...	24	18	.2	.68	1.7	.079	.52	.50	.14	144	18
NOV.											
16...	29	13	.2	.47	1.1	.007	.04	.60	.10	147	6
DEC.											
28...	27	40	.2	1.0	2.5	.130	.57	.84	.19	205	50
JAN.											
25...	35	60	.2	2.0	3.8	.062	1.3	.44	.30	265	66
MAR.											
21...	23	20	.1	1.2	2.7	.018	.62	.88	.18	158	33
APR.											
18...	17	12	.0	.96	2.1	.006	.08	1.0	.33	127	207
MAY											
16...	20	16	.5	.65	2.1	.010	.20	1.3	.10	140	16
JUNE											
13...	18	8.8	.0	.71	1.7	.011	.22	.82	.076	118	15
JULY											
11...	22	8.7	.2	.50	1.4	.057	.08	.84	.097	149	18
AUG.											
08...	24	23	.3	.69	3.2	.190	1.3	1.0	.10	152	13
SEP.											
05...	30	9.8	.1	.57	1.3	.024	.20	.54	.10	149	4

01349527 MOHAWK RIVER AT FONDA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 19...	91	19	251	7.3	31	--	.05	--	--	--	--
NOV. 16...	110	28	252	7.5	14	--	.03	2	30	--	<.5
DEC. 28...	110	29	366	7.3	32	--	.08	11	0	19	<.5
JAN. 25...	130	26	475	7.6	--	57	.07	--	--	--	--
MAR. 21...	110	23	280	7.3	17	--	.04	4	30	11	<.5
APR. 18...	93	20	218	7.4	34	--	.04	--	--	--	--
MAY 16...	93	16	240	7.8	17	--	.04	--	--	--	--
JUNE 13...	91	21	206	7.4	17	--	.03	--	--	--	--
JULY 11...	120	25	266	7.9	13	--	.04	6	0	10	<.5
AUG. 08...	110	28	248	7.6	9	--	.04	--	--	--	--
SEP. 05...	120	32	264	7.9	11	--	.06	--	--	--	--

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, N.Y.

LOCATION.--Lat 42°27'57", long 74°27'45", Schoharie County, on left bank, 2,300 ft upstream from West Kill and 1.2 miles upstream from bridge on State Highway 30 in North Blenheim.

DRAINAGE AREA.--359 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1972.

EXTREMES.--1971-72:
Water Temperatures: Maximum, 33°C Aug. 30; minimum, freezing point on several days in February and March.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAR.											
20...	1015	870	3.6	160	0	7.0	1.2	3.2	.8	18	0
JUNE											
24...	0800	7250	2.9	--	--	7.8	1.9	2.2	1.0	19	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
MAR.											
20...	15	11	5.0	.0	.40	42	22	8	70	6.8	1.0
JUNE											
24...	16	14	2.5	.0	.20	43	27	12	--	7.5	--

HUDSON RIVER BASIN

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	26.0	11.5	18.0	13.5	4.0	2.5	2.0	1.5	3.0	1.5	3.5	1.0
2	25.0	15.0	16.5	13.0	5.0	2.5	2.5	1.5	3.0	2.5	4.0	0.5
3	22.5	17.0	13.5	11.5	4.5	2.5	2.5	2.0	3.5	2.5	3.5	2.0
4	23.5	15.5	14.0	9.5	5.0	2.5	2.5	2.0	3.5	2.5	2.5	1.0
5	22.5	15.5	13.0	8.0	4.0	2.0	2.0	1.5	2.5	1.0	2.5	1.0
6	20.0	13.5	12.5	7.0	3.0	1.5	2.0	1.5	2.0	0.0	2.0	1.0
7	17.0	12.0	10.5	7.5	1.5	1.0	1.5	1.0	1.0	0.0	2.5	0.0
8	19.0	11.0	10.5	6.0	3.0	1.5	1.5	1.0	1.5	0.0	3.0	1.0
9	15.5	11.0	7.5	5.5	3.5	3.0	1.5	0.5	2.0	1.0	2.0	1.0
10	14.5	14.0	7.0	5.5	5.0	3.5	2.0	1.0	1.5	0.5	2.5	0.5
11	15.0	13.0	8.0	6.0	6.0	4.5	2.5	2.0	1.5	0.5	2.5	0.5
12	15.5	11.5	7.0	6.0	4.5	3.0	2.5	2.0	1.5	0.5	2.0	0.5
13	15.5	10.0	8.5	5.5	4.5	3.5	3.5	2.0	2.0	0.5	2.0	0.5
14	17.5	13.0	8.5	5.0	3.5	2.5	3.5	2.5	2.5	0.0	3.0	0.5
15	19.0	13.0	6.0	4.5	4.5	3.0	2.5	2.0	2.0	0.0	4.0	0.5
16	18.5	13.0	8.5	5.5	6.5	4.5	2.0	2.0	1.5	0.0	5.0	2.5
17	18.0	12.5	9.0	4.5	5.5	4.0	2.0	1.5	1.5	0.0	4.5	2.5
18	19.0	11.5	10.0	5.0	4.0	1.5	2.5	1.5	2.0	0.0	3.0	1.0
19	18.5	10.0	10.5	5.5	2.0	1.0	3.0	2.0	2.5	1.0	3.0	1.0
20	18.0	11.5	9.5	6.5	2.0	1.5	3.0	2.5	2.5	1.0	1.5	0.5
21	18.0	11.5	8.5	6.0	2.5	2.0	3.0	2.5	2.5	1.0	2.0	0.5
22	17.0	9.0	6.5	4.5	2.5	1.5	3.5	2.0	2.0	0.5	2.0	1.0
23	18.0	11.5	8.5	3.5	3.5	1.5	3.5	3.0	2.5	0.5	2.0	1.5
24	13.0	12.0	4.5	3.0	2.0	1.5	3.5	3.0	2.5	0.5	1.5	1.0
25	14.5	12.0	3.0	2.5	2.0	1.0	3.5	2.0	2.0	0.5	1.5	1.0
26	15.0	13.0	3.0	2.5	3.0	2.0	2.0	1.5	2.0	0.5	1.5	0.5
27	17.0	13.0	4.5	3.0	3.0	3.0	2.0	1.5	3.0	0.5	1.5	1.0
28	18.0	13.0	5.5	3.5	3.5	3.0	2.0	1.0	2.5	0.5	2.0	1.0
29	17.5	11.5	5.0	3.0	3.5	2.5	2.0	1.5	3.0	1.0	2.5	1.5
30	16.0	10.0	3.5	2.5	3.0	2.0	2.0	1.5	---	---	4.0	2.0
31	14.0	11.5	---	---	2.0	1.5	2.0	1.5	---	---	4.5	2.5
MONTH	26.0	9.0	18.0	2.5	6.5	1.0	3.5	0.5	3.5	0.0	5.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.0	3.0	8.0	6.0	18.5	16.0	20.0	12.0	28.5	16.5	32.0	16.0
2	4.5	3.5	9.0	7.0	16.5	14.5	20.0	12.0	23.0	17.0	31.0	16.0
3	4.0	3.0	10.5	8.5	17.0	13.0	20.0	12.5	22.5	18.0	30.0	16.0
4	3.5	3.0	10.5	7.5	17.0	14.0	19.5	17.5	23.5	14.0	29.0	15.0
5	4.5	2.0	7.5	6.5	17.5	16.5	18.0	17.0	27.5	13.0	28.0	15.0
6	5.0	3.0	7.0	6.0	18.0	15.0	21.5	18.0	27.5	12.5	27.0	15.0
7	5.0	3.0	7.5	7.0	18.0	15.5	22.5	18.5	23.5	18.0	26.0	14.0
8	5.0	2.0	7.5	6.5	16.0	12.5	25.0	18.5	24.5	17.5	25.0	14.0
9	5.0	2.5	7.0	6.5	16.5	13.5	19.5	19.0	27.0	16.0	24.0	14.0
10	4.5	2.5	6.5	6.0	16.0	14.0	22.0	19.5	22.5	13.5	23.0	13.0
11	4.5	2.5	6.5	6.0	15.0	13.0	25.0	18.5	27.0	12.0	22.0	13.0
12	4.5	2.0	6.5	6.0	14.5	13.5	27.5	17.0	27.0	15.5	21.0	12.0
13	3.5	2.5	7.5	6.0	15.5	14.0	21.5	19.0	29.0	17.0	17.0	11.5
14	3.0	2.5	11.0	7.0	18.0	15.5	25.0	19.5	23.5	17.0	18.0	14.5
15	3.0	2.5	11.0	8.5	20.5	18.0	23.0	20.5	28.5	15.0	19.5	15.0
16	5.0	2.5	11.5	8.5	20.5	19.5	23.5	21.5	25.5	19.0	20.5	14.5
17	7.0	3.0	12.0	9.5	20.5	18.5	25.5	21.0	19.5	17.0	23.0	15.5
18	5.5	3.5	12.5	10.5	21.0	19.0	25.0	19.5	25.5	17.0	21.0	17.5
19	4.5	3.5	14.0	11.5	20.5	19.0	29.5	19.0	28.5	16.5	19.0	16.5
20	5.5	3.5	15.0	13.5	22.0	14.0	27.0	20.0	29.0	16.0	19.5	15.5
21	5.5	3.5	15.0	14.0	22.0	14.0	28.0	20.0	29.5	15.0	18.0	14.5
22	4.0	3.5	16.0	14.5	22.0	14.0	31.5	17.0	30.0	16.0	19.0	15.0
23	4.5	3.5	16.5	15.5	22.0	14.0	29.0	21.0	29.0	17.5	18.0	14.0
24	5.0	4.5	16.5	15.0	22.0	14.0	30.0	19.5	30.5	21.0	15.5	14.5
25	5.0	4.5	17.0	16.5	22.0	14.0	29.5	17.5	30.5	20.0	19.0	15.5
26	5.0	4.0	17.5	16.5	22.0	14.0	26.0	16.5	26.5	22.0	18.5	16.5
27	6.0	4.5	18.0	16.5	22.0	14.0	26.5	15.5	26.5	23.0	19.0	17.0
28	6.0	4.0	18.0	16.5	22.0	14.0	25.5	14.5	26.0	19.5	18.5	15.0
29	5.5	4.5	18.5	17.5	20.0	12.0	29.5	14.0	28.5	18.0	16.5	14.5
30	7.0	5.5	19.0	18.0	20.0	12.0	24.0	18.0	33.0	17.0	17.0	14.0
31	---	---	19.0	17.5	---	---	21.0	17.5	---	---	---	---
MONTH	7.0	2.0	19.0	6.0	22.0	12.0	31.5	12.0	33.0	12.0	32.0	11.5

01353995 SCHOHARIE CREEK AT FORT HUNTER, N.Y.

LOCATION.--Lat 42°56'17", long 74°16'57", Montgomery County, at bridge on State Highway 5S in Fort Hunter and 0.6 mile upstream from mouth.

DRAINAGE AREA.--926 sq mi.

PERIOD OF RECORD.--Chemical analyses: April 1968 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972.

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
NOV.											
16...	1140	.8	20	0	43	5.5	9.2	1.9	128	0	105
APR.											
18...	1230	4.0	170	0	18	2.0	3.0	1.3	51	0	42
JUNE											
13...	1110	3.2	30	0	24	2.3	3.7	.8	70	0	57
SEP.											
05...	1125	3.1	20	0	36	5.9	7.6	2.0	105	0	86

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
NOV.											
16...	25	14	.0	.45	.55	.006	.05	.04	.010	163	4
APR.											
18...	16	4.0	.0	.66	1.4	.005	.10	.64	.19	77	160
JUNE											
13...	14	4.7	.0	.39	.73	.007	.05	.29	.034	89	5
SEP.											
05...	25	11	.0	.43	.58	.007	.04	.11	.019	143	5

01353995 SCHOHARIE CREEK AT FORT HUNTER, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.										
16...	130	25	291	7.9	7	.03	2	10	--	<.5
APR.										
18...	53	11	125	7.4	17	.05	--	--	--	--
JUNE										
13...	69	12	160	7.7	7	.02	3	0	42	<.5
SEP.										
05...	110	28	258	8.1	9	.02	--	--	--	--

01354160 MOHAWK RIVER AT LOCK 10, AT CRANESVILLE, N.Y.

LOCATION.—Lat 42°55'03", long 74°08'31", Montgomery County, at Erie (Barge) Canal Lock 10, 0.2 mile upstream from Evas Kill, 0.3 mile west of Cranesville, and 0.8 mile downstream from Tarvilleger Creek.

PERIOD OF RECORD.—Chemical analyses: April 1969 to September 1972.

COOPERATION.—Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
06...	1300	3.8	50	0	31	4.6	7.8	1.5	88	0	72
19...	1115	4.3	30	0	32	4.1	9.4	1.6	94	0	77
NOV.											
03...	1300	4.3	50	0	30	5.2	8.5	1.3	88	0	72
16...	1050	4.5	20	0	33	5.5	8.6	1.4	95	0	78
DEC.											
08...	1315	4.5	200	0	36	5.9	8.3	2.0	104	0	85
28...	1130	4.9	130	0	32	5.2	8.7	1.4	93	0	76
JAN.											
12...	1130	5.1	30	0	33	5.5	9.0	1.3	93	0	76
25...	1020	4.8	30	40	31	5.1	9.8	1.6	87	0	71
MAR.											
21...	1100	4.7	140	0	26	4.0	6.5	1.4	75	0	62
APR.											
04...	1315	4.3	140	0	29	4.8	5.4	1.6	85	0	70
18...	1045	4.2	190	0	24	3.1	3.5	1.4	69	0	57
MAY											
02...	1245	3.8	80	0	21	3.2	4.1	.8	58	0	48
16...	1045	3.7	20	20	24	3.8	4.8	1.2	77	0	63
30...	1330	1.2	10	0	28	4.3	6.0	1.0	83	1	70
JUNE											
13...	1035	4.0	40	0	29	3.5	4.3	.9	83	0	68
26...	1300	4.4	220	0	27	4.1	3.9	1.0	79	0	65
JULY											
11...	1045	4.3	40	0	31	4.8	4.6	1.0	97	0	80
25...	1300	2.4	30	0	36	5.9	8.0	1.3	110	0	90
AUG.											
08...	1100	1.6	20	0	30	6.0	9.3	2.0	109	0	89
22...	1300	1.8	20	0	36	6.0	11	1.3	107	0	88
SEP.											
05...	1050	1.3	20	0	37	6.5	14	1.6	107	0	88
19...	1300	.1	10	0	34	5.8	9.4	1.3	97	1	81

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
06...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NOV.											
03...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC.											
08...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JAN.											
12...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAR.											
21...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR.											
04...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAY											
02...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUNE											
13...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JULY											
11...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AUG.											
08...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP.											
05...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01354160 MOHAWK RIVER AT LOCK 10, AT CRANESVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
06...	96	24	225	7.3	16	--	.05	--	--	--	--
19...	97	20	240	7.4	1	--	.04	--	--	--	--
NOV.											
03...	96	24	231	7.4	11	--	.06	7	0	--	<.5
16...	110	27	242	7.5	14	--	.04	6	30	--	<.5
DEC.											
08...	110	29	265	7.6	--	69	.05	7	40	11	<.5
28...	100	25	238	7.6	14	--	.04	7	10	--	<.5
JAN.											
12...	110	29	248	7.6	8	--	.04	4	20	3	<.5
25...	98	27	237	7.5	16	--	.04	--	--	--	--
MAR.											
21...	81	20	199	7.5	16	--	.03	--	--	--	--
APR.											
04...	92	22	210	7.4	8	--	.03	--	--	--	--
18...	73	16	158	7.4	19	--	.02	--	--	--	--
MAY											
02...	66	18	152	8.1	9	--	.04	--	--	--	--
16...	81	17	186	7.9	11	--	.04	--	--	--	--
30...	88	18	208	8.4	11	--	.03	--	--	--	--
JUNE											
13...	87	19	192	7.6	11	--	.03	--	--	--	--
26...	84	20	179	7.8	13	--	.04	8	0	14	<.5
JULY											
11...	97	18	219	7.9	9	--	.03	7	20	10	<.5
25...	110	24	266	8.0	11	--	.03	--	--	--	--
AUG.											
08...	120	30	277	7.6	9	--	.03	--	--	--	--
22...	120	27	283	8.3	11	--	.05	--	--	--	--
SEP.											
05...	120	31	314	7.7	15	--	.05	--	--	--	--
19...	110	28	293	8.4	9	--	.08	--	--	--	--

01354490 MOHAWK RIVER AT SCHENECTADY, N.Y.

LOCATION.--Lat 42°49'07", long 73°56'59", Schenectady County, at abutment of former bridge at end of Washington Avenue in Schenectady, 0.3 mile downstream from Western Gateway Bridge, and 1.0 mile upstream from Collins Creek.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
06...	1330	4.0	60	0	32	4.8	12	1.6	92	0	75
19...	1400	4.2	50	0	31	4.1	10	1.4	90	0	74
NOV.											
03...	1400	4.1	60	0	32	5.7	12	1.4	97	0	80
16...	1400	4.5	20	10	36	6.2	13	1.5	104	0	85
DEC.											
08...	1400	4.8	70	0	39	6.8	12	1.7	110	0	90
28...	1410	4.4	90	0	34	5.8	11	1.5	102	0	84
JAN.											
12...	1430	5.6	20	0	36	6.0	15	1.3	100	0	82
29...	1350	5.4	30	0	36	5.6	12	1.4	100	0	82
MAR.											
21...	1320	5.0	180	0	29	4.7	9.1	1.6	86	0	71
APR.											
04...	1415	4.7	150	20	32	5.6	10	2.0	98	0	80
18...	1345	4.2	100	0	27	3.7	4.1	1.4	78	0	64
MAY											
02...	1345	4.1	110	0	23	3.5	6.1	1.0	66	0	54
16...	1345	3.7	20	0	28	3.9	5.7	1.4	80	0	66
30...	1415	1.2	10	0	30	4.6	15	1.5	95	0	78
JUNE											
13...	1330	4.9	40	0	33	5.2	16	1.8	110	0	90
26...	1400	4.7	240	0	29	5.1	8.1	1.2	88	0	72
JULY											
11...	1330	4.5	50	0	35	5.3	8.6	1.2	108	0	89
25...	1400	2.3	30	0	37	5.8	10	1.3	115	0	93
AUG.											
08...	1400	.1	10	0	38	6.3	13	2.5	116	0	95
22...	1400	.2	20	0	36	5.8	9.1	1.3	98	6	91
SEP.											
05...	1400	.2	20	0	40	6.7	10	1.6	110	0	90
19...	1400	.2	10	0	38	6.6	14	1.3	110	0	90

[illegible]

0134490 MOHAWK RIVER AT SCHENECTADY, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
06...	100	24	247	7.4	23	--	.06	--	--	--	--
19...	94	20	238	7.5	15	--	.06	--	--	--	--
NOV.											
03...	100	24	264	7.6	13	--	.06	5	0	--	<.5
16...	120	30	278	7.5	15	--	.05	5	50	--	<.5
DEC.											
08...	130	35	291	7.4	16	--	.05	8	40	9	<.5
28...	110	30	267	7.6	--	51	.06	--	--	--	--
JAN.											
12...	120	33	290	7.7	8	--	.05	6	10	8	<.5
25...	110	31	274	7.6	23	--	.04	6	20	10	<.5
MAR.											
21...	92	21	233	7.4	17	--	.04	--	--	--	--
APR.											
04...	100	23	257	7.4	11	--	.03	--	--	--	--
18...	83	19	178	7.3	21	--	.03	--	--	--	--
MAY											
02...	72	18	180	8.1	14	--	.03	--	--	--	--
16...	86	20	198	7.7	25	--	.06	--	--	--	--
30...	94	16	269	8.0	6	--	.04	--	--	--	--
JUNE											
13...	110	19	296	7.6	11	--	.04	--	--	--	--
26...	93	21	209	7.7	23	--	.04	8	10	100	<.5
JULY											
11...	110	21	243	7.9	10	--	.03	1	0	9	<.5
25...	120	26	279	8.0	12	--	.05	--	--	--	--
AUG.											
09...	120	26	306	7.9	9	--	.05	--	--	--	--
22...	110	25	269	8.8	13	--	.05	--	--	--	--
SEP.											
05...	130	35	288	7.9	13	--	.06	--	--	--	--
19...	120	31	304	8.3	10	--	.06	--	--	--	--

01356000 MOHAWK RIVER AT VISCHER FERRY DAM, N.Y.

LOCATION.--Lat 42°48'27", long 73°50'39", Saratoga County, at bridge crossing headrace of Vischer Ferry powerplant operated by New York State Department of Transportation at Vischer Ferry Dam.

DRAINAGE AREA.--3,385 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1951 to September 1953.
Water temperatures: October 1951 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 26.5°C July 24-30; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 29.5°C Aug. 5, 1955; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature record furnished by New York State Department of Transportation. Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, DECEMBER 1971 TO MARCH 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
NOV.											
08...	1203	--	--	--	--	--	--	--	--	--	--
DEC.											
15...	0930	4.7	90	0	36	6.2	8.4	1.6	104	0	85
JAN.											
17...	0930	5.5	80	0	35	6.0	9.9	1.7	104	0	85
FEB.											
14...	0930	5.8	30	0	34	5.5	10	1.2	97	0	80
MAR.											
13...	0930	5.6	100	0	35	6.1	11	1.6	99	0	81

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
NOV.											
08...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
15...	27	12	.1	.67	1.8	.095	.25	.84	.11	192	16
JAN.											
17...	27	17	.0	.77	2.5	.013	.08	.75	.12	159	9
FEB.											
14...	28	15	.1	.36	2.1	.120	.21	1.4	.10	155	4
MAR.											
13...	25	17	.1	.66	1.8	.075	.20	.90	.077	155	8

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.										
08...	--	--	--	--	--	--	0	10	0	[illegible]
DEC.										
15...	120	30	304	7.9	11	.04	0	0	7	[illegible]
JAN.										
17...	110	27	300	7.7	10	.04	0	20	0	[illegible]
FEB.										
14...	110	30	284	7.6	12	.03	1	0	0	[illegible]
MAR.										
13...	110	31	276	7.8	8	.04	0	20	0	--

01356000 MOHAWK RIVER AT VISCHER FERRY DAM, N.Y.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(TWICE DAILY MEASUREMENTS AT 0800 AND 1600)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	16.5	17.0	14.0	14.0	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
2	16.5	17.0	14.0	14.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
3	16.5	17.0	13.5	13.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
4	16.5	16.5	13.5	13.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5	16.5	16.5	13.5	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	17.0	17.0	13.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	16.0	16.5	12.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	16.0	16.5	11.5	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	16.0	16.0	11.0	11.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
10	16.0	16.0	8.5	8.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
11	15.5	15.5	8.5	8.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
12	15.0	15.5	8.5	8.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
13	14.5	14.5	7.0	7.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
14	14.5	14.5	6.0	6.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
15	14.5	14.5	5.5	6.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
16	14.5	14.5	6.5	6.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
17	14.5	14.5	6.0	6.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
18	14.0	14.5	6.0	6.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
19	14.0	14.5	6.0	6.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
20	14.5	14.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	14.0	14.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
22	14.0	14.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
23	14.0	14.0	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
24	14.0	14.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
25	14.0	14.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
26	14.0	14.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
27	14.0	14.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
28	14.0	14.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
29	14.5	14.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
30	14.0	14.0	3.5	3.0	0.0	0.0	0.0	0.0	——	——	3.0	3.0
31	14.0	14.0	——	——	0.0	0.0	0.0	0.0	——	——	3.0	3.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	3.0	3.0	9.0	9.5	20.5	20.5	19.0	19.0	25.0	25.0	23.5	24.0
2	3.5	3.5	9.0	9.5	20.5	20.5	18.5	19.0	24.5	24.5	23.5	24.5
3	3.5	3.5	10.0	10.0	20.5	20.5	18.0	19.5	25.0	25.0	23.5	24.0
4	3.5	3.5	10.0	10.0	20.5	20.5	19.0	19.0	24.5	25.5	23.0	22.0
5	3.0	3.5	9.5	10.0	18.5	18.5	19.5	19.5	25.0	25.5	22.0	22.0
6	3.0	2.0	10.0	10.0	18.5	19.0	20.0	20.0	25.0	25.0	21.5	22.0
7	2.0	2.0	9.5	10.0	19.5	18.5	19.5	20.0	23.0	23.0	21.0	21.0
8	2.0	2.0	10.0	9.5	18.5	18.5	20.0	20.0	23.0	23.0	21.0	21.5
9	2.0	1.5	9.0	9.0	18.5	18.5	20.0	20.0	23.0	23.0	21.5	21.5
10	2.0	3.0	8.0	8.5	18.0	18.0	20.5	20.5	23.0	23.0	20.5	20.5
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	——	——	[illegible]	[illegible]	——	——	[illegible]	[illegible]	[illegible]	[illegible]	——	——

01357000 MOHAWK RIVER AT CRESCENT DAM, N.Y.

LOCATION.--Lat 42°48'22", long 73°43'24", Albany County, at hydroelectric station at Crescent Dam and 1.7 miles upstream from gaging station (01357500) at Cohoes.

DRAINAGE AREA.--3,453 sq mi.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.											
13...	1530	E3640	3.3	30	0	35	5.1	9.8	1.4	94	0
27...	1630	E2800	3.5	20	0	34	5.6	12	1.6	100	0
NOV.											
09...	1400	E2510	3.6	40	0	33	5.7	11	1.4	94	0
30...	1830	E3910	4.3	80	0	34	6.2	10	1.3	103	0
DEC.											
14...	1530	E9730	4.5	230	0	34	5.8	6.5	2.1	95	0
JAN.											
05...	1300	E6330	5.3	20	0	34	5.6	8.4	1.3	99	0
19...	1350	E5780	5.4	120	0	36	6.1	11	1.8	105	0
FEB.											
02...	0930	E4170	5.2	120	0	34	5.4	11	1.4	98	0
16...	1400	E7190	5.6	40	0	33	5.5	15	1.3	95	0
29...	1045	E3090	6.0	70	0	38	6.3	14	1.4	111	0
MAR.											
14...	1430	E7380	5.5	70	0	33	6.0	12	1.5	96	0
28...	1115	E11300	4.8	210	0	29	5.0	7.1	1.4	87	0
APR.											
11...	1900	E8800	4.7	130	0	35	6.0	7.9	1.4	100	0
26...	0945	E19000	4.0	110	0	24	3.8	4.2	1.0	73	0
MAY											
09...	1315	E33200	4.1	110	0	22	3.4	3.8	.9	64	0
23...	0930	E7380	3.7	20	40	26	4.1	5.4	1.1	72	0
JUNE											
06...	1915	E14600	3.9	40	0	29	4.2	4.8	1.2	88	0
20...	1930	E9560	3.7	80	0	33	5.7	6.2	1.1	100	0
JULY											
05...	1530	E9030	4.9	50	0	33	5.1	5.0	1.2	100	0
19...	1000	E4340	2.8	20	0	37	6.0	6.9	1.1	114	0
AUG.											
01...	1430	E2170	.2	50	40	41	6.5	11	1.6	120	0
15...	1545	E3270	.1	40	0	37	6.4	9.0	1.3	109	0
29...	1415	E6110	.4	30	20	38	6.5	12	2.2	114	0
SEP.											
12...	1040	E600	.3	20	0	40	6.6	13	1.7	117	0
26...	1430	E1860	.1	40	0	39	6.4	13	1.6	111	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.											
13...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NOV.											
09...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEC.											
14...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JAN.											
05...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FEB.											
02...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAR.											
14...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR.											
11...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAY											
09...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUNE											
06...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JULY											
05...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AUG.											
01...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP.											
12...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01357000 MOHAWK RIVER AT CRESCENT DAM, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
13...	30	110	31	252	7.4	20	.06	--	--	--	--
27...	14	110	26	262	7.6	13	.03	9	0	--	.5
NOV.											
09...	5	110	29	264	7.5	12	.05	7	30	1	.5
30...	0	110	26	265	7.5	11	.09	12	20	1	.5
DEC.											
14...	30	110	31	237	7.3	13	.05	6	50	5	.5
JAN.											
05...	4	110	27	250	7.6	8	.05	--	--	--	--
19...	8	120	29	272	7.5	10	.04	--	--	--	--
FEB.											
02...	2	110	27	262	7.5	4	.03	5	20	3	.5
16...	6	110	27	282	7.5	10	.06	--	--	--	--
29...	6	120	30	314	7.5	9	.04	5	0	2	.5
MAR.											
14...	16	110	28	273	7.5	11	.03	--	--	--	--
28...	12	93	22	222	7.6	9	.04	--	--	--	--
APR.											
11...	4	110	30	263	7.2	4	.03	--	--	--	--
26...	26	76	16	174	8.1	10	.03	--	--	--	--
MAY											
09...	53	69	16	157	7.9	14	.03	7	30	7	.5
23...	37	82	23	199	7.2	10	.03	--	--	--	--
JUNE											
06...	31	90	18	206	7.8	7	.04	--	--	--	--
20...	24	110	24	236	7.8	7	.04	6	0	4	.5
JULY											
05...	31	100	21	224	7.6	13	.04	--	--	--	--
18...	16	120	24	266	7.8	2	.03	--	--	--	--
AUG.											
01...	24	130	31	300	7.8	13	.05	--	--	--	--
15...	29	120	29	287	7.8	11	.03	--	--	--	--
29...	14	120	28	284	7.8	12	.04	--	--	--	--
SEP.											
12...	15	130	31	312	7.7	10	.08	9	0	6	.5
26...	13	120	33	308	7.8	10	.05	--	--	--	--

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.
(International Hydrological Decade River Station)

LOCATION (revised).--Lat 42°44'07", long 73°41'25", Albany-Rensselaer County line, right channel at bridge on road between Green Island and Troy, at Starbuck Island, 0.5 mile upstream from bridge on State Highway 7, and 1.2 miles downstream from gaging station at Troy Lock and dam.

DRAINAGE AREA.--8,090 sq mi, approximately (including that above site of former auxiliary gage).

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1972.
Water temperatures: October 1954 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 24.5°C July 20-22, Aug. 27; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 28.5°C July 27-30, 1963; minimum, freezing point on many days during winter periods.

REMARKS.--Water temperature measurements made at Troy Lock and dam, lat 42°45'05", long 73°41'10". Prior to October 1968 sampling site at bridge on State Highway 7. Stream frozen or no water temperature record Dec. 14 to April 27, May 14-22.

COOPERATION.--Water temperature record furnished by the Corps of Engineers.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
21...	1410	E8720	3.5	80	0	21	3.9	6.8	1.0	61	0	50
NOV.												
23...	1345	E7740	4.2	90	0	26	4.6	9.0	1.3	76	0	62
DEC.												
21...	1545	E15100	4.9	60	0	27	4.9	6.4	1.4	80	0	66
28...	1415	E15000	--	--	--	--	--	--	--	--	--	--
JAN.												
19...	1605	E12800	5.6	100	0	33	5.6	10	1.3	96	0	79
FEB.												
23...	1615	E10400	5.7	110	0	23	4.2	10	1.2	68	0	56
MAR.												
22...	1600	E36000	4.9	220	0	25	4.3	9.8	1.4	74	0	61
APR.												
19...	1600	E56600	4.3	430	70	26	2.7	3.8	1.2	70	0	57
MAY												
23...	1300	E27500	4.2	60	0	18	2.4	3.8	.7	50	0	41
JUNE												
15...	1330	E13300	4.3	60	0	26	3.6	5.4	.9	75	0	62
JULY												
25...	1400	E12500	2.6	70	10	25	3.8	5.7	.9	74	0	61
AUG.												
24...	1300	E5790	3.2	130	0	19	3.4	6.4	.8	56	0	46
SEP.												
21...	1330	E7230	3.5	130	0	19	3.4	7.3	.8	47	0	39

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.												
21...	18	10	.1	.58	1.3	.026	.27	.47	.11	96	12	68
NOV.												
23...	24	12	.1	.98	1.7	.120	.18	.50	.14	123	10	84
DEC.												
21...	22	8.9	.1	.50	1.4	.019	.21	.76	.050	119	8	88
28...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
19...	27	16	.1	.74	1.7	.016	.34	.68	.14	[illegible]	9	110
FEB.												
23...	20	19	.0	.36	1.4	.012	.30	.50	.066	116	5	75
MAR.												
22...	18	10	.0	.54	1.0	.010	.31	.32	.070	110	17	80
APR.												
19...	21	7.7	.0	.44	1.4	[illegible]	.19	.40	.21	[illegible]	[illegible]	76
MAY												
23...	16	8.4	.1	.47	1.6	[illegible]	[illegible]	.47	.052	78	26	[illegible]
JUNE												
15...	17	7.6	.0	[illegible]	[illegible]	.010	[illegible]	[illegible]	.084	[illegible]	[illegible]	[illegible]
JULY												
25...	17	8.7	.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.078	[illegible]	18	[illegible]
AUG.												
24...	18	11	.0	[illegible]	1.4	[illegible]	[illegible]	[illegible]	--	[illegible]	--	[illegible]
SEP.												
21...	[illegible]	11	.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9	[illegible]

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.--Continued
(International Hydrological Decade River Station)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
21...	18	178	7.3	14.0	6.5	22	.06	--	--	--	--
NOV.											
23...	22	214	7.5	3.5	11.8	10	.05	9	20	22	<.5
DEC.											
21...	22	201	7.4	1.5	12.2	11	.04	--	--	--	--
28...	--	130	7.8	1.5	12.0	--	--	--	--	--	--
JAN.											
19...	27	248	7.7	.0	--	17	.05	--	--	--	--
FEB.											
23...	19	205	7.4	.0	12.2	10	.05	5	0	11	<.5
MAR.											
22...	19	199	6.8	5.0	12.3	13	.03	--	--	--	--
APR.											
19...	19	160	7.9	10.0	10.8	15	.02	--	--	--	--
MAY											
23...	14	134	7.6	15.0	6.8	11	.02	--	--	--	--
JUNE											
15...	18	187	7.4	21.5	6.4	12	.04	--	--	--	--
JULY											
25...	17	188	7.8	25.0	5.3	11	.03	--	--	--	--
AUG.											
24...	16	169	7.6	24.0	5.1	19	.05	--	--	--	--
SEP.											
21...	23	159	7.5	18.0	6.1	19	.05	--	--	--	--

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	14.0	3.5	---	---	---	---	9.0	18.5	24.0	23.5	23.5
2	18.0	14.5	2.0	---	---	---	---	9.0	17.0	24.0	24.0	23.5
3	18.5	14.5	2.0	---	---	---	---	9.0	17.0	23.5	24.0	23.5
4	17.0	13.5	1.5	---	---	---	---	8.5	17.0	23.5	24.0	22.0
5	17.0	13.5	1.5	---	---	---	---	8.5	18.5	23.5	23.0	23.0
6	18.5	13.5	1.5	---	---	---	---	8.5	18.5	23.5	23.5	21.5
7	18.0	12.0	1.5	---	---	---	---	8.5	19.0	18.0	23.5	21.0
8	18.0	11.0	1.5	---	---	---	---	8.5	18.5	18.0	23.5	21.0
9	18.0	11.0	1.5	---	---	---	---	8.0	18.5	18.5	23.5	21.0
10	18.0	10.5	1.5	---	---	---	---	8.0	18.0	18.5	23.0	21.0
11	17.0	10.0	1.5	---	---	---	---	8.5	18.0	18.5	23.0	21.0
12	15.5	7.0	1.5	---	---	---	---	8.5	18.5	18.5	23.0	21.0
13	15.0	8.0	1.5	---	---	---	---	8.5	18.5	18.5	23.0	21.0
14	15.0	6.0	---	---	---	---	---	---	18.5	21.5	23.5	20.0
15	14.5	7.0	---	---	---	---	---	---	19.0	21.5	23.0	20.0
16	14.5	5.5	---	---	---	---	---	---	19.0	21.5	23.0	19.5
17	14.5	6.5	---	---	---	---	---	---	19.0	24.0	23.0	20.0
18	15.0	6.0	---	---	---	---	---	---	19.0	24.0	23.0	20.0
19	15.0	6.0	---	---	---	---	---	---	19.5	24.0	23.0	21.0
20	14.5	6.0	---	---	---	---	---	---	19.5	24.5	23.5	20.0
21	14.0	6.0	---	---	---	---	---	---	21.0	24.5	23.0	18.5
22	14.0	6.0	---	---	---	---	---	---	21.0	24.5	23.0	18.5
23	14.0	4.5	---	---	---	---	---	14.5	21.0	23.5	23.5	18.5
24	14.0	3.5	---	---	---	---	---	15.5	22.0	24.0	23.5	18.5
25	14.0	3.5	---	---	---	---	---	15.0	22.0	23.5	23.5	18.5
26	14.0	3.5	---	---	---	---	---	15.5	22.0	23.5	23.5	18.5
27	14.0	3.5	---	---	---	---	---	15.5	22.0	23.5	24.5	18.5
28	14.0	3.5	---	---	---	---	7.0	16.0	23.0	23.5	23.0	18.5
29	14.0	3.5	---	---	---	---	7.0	16.0	23.5	23.5	23.5	18.5
30	14.0	3.5	---	---	---	---	8.0	16.5	24.0	23.5	23.5	18.5
31	14.0	---	---	---	---	---	---	18.5	---	24.0	23.0	---
AVERAGE	15.5	8.0	---	---	---	---	---	---	19.5	22.0	23.5	20.5

01359560 HUDSON RIVER AT GLENMONT, N.Y.

LOCATION.--Lat 42°35'43", long 73°45'43", Albany County, at Niagara Mohawk Glenmont Power Station (intake), 0.2 mile downstream from lower mouth of Normans Kill and 0.9 mile southeast of Glenmont.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
06...	0915	3.6	120	0	21	3.7	7.5	1.3	58	0	48
19...	1000	3.9	80	0	19	2.9	8.3	1.2	53	0	43
NOV.											
03...	0930	4.0	140	0	21	4.0	8.4	1.2	59	0	48
16...	0945	4.4	80	0	21	4.1	8.6	1.2	60	0	49
DEC.											
08...	0915	4.8	120	0	30	5.9	12	1.4	85	0	70
28...	0940	5.0	100	20	30	5.6	10	1.3	90	0	74
JAN.											
12...	0930	5.8	100	0	24	5.0	8.9	1.0	70	0	57
25...	1000	5.4	80	30	24	4.6	9.8	1.2	68	0	56
FEB.											
09...	0930	6.0	70	0	24	4.7	11	1.1	71	0	58
22...	0945	5.9	120	0	24	4.5	12	1.7	69	0	57
MAR.											
07...	0930	4.8	150	0	21	4.0	8.0	2.0	61	0	50
21...	0945	4.8	230	0	22	3.8	7.1	1.5	60	0	49
APR.											
04...	0945	4.9	170	0	26	4.9	7.5	1.7	73	0	60
18...	0945	4.6	70	0	25	4.3	6.1	1.4	72	0	59
MAY											
02...	0915	5.0	100	0	17	3.2	5.1	1.1	46	0	38
16...	0945	4.5	40	1600	23	3.7	6.3	1.9	62	0	51
30...	0930	3.0	50	0	19	3.2	5.0	.8	52	0	43
JUNE											
13...	0940	4.7	50	0	23	3.4	5.7	1.1	66	0	54
26...	0945	4.8	120	0	21	3.7	5.3	1.4	64	0	52
JULY											
11...	0945	4.8	70	0	20	3.9	5.1	.8	64	0	52
25...	0930	4.0	120	0	20	3.7	6.1	.9	58	0	48
AUG.											
08...	0940	3.5	110	0	23	4.3	9.0	2.7	66	0	54
22...	0930	3.5	110	530	21	3.9	7.7	1.0	56	0	46
SEP.											
05...	0945	3.4	180	0	21	3.9	8.5	1.1	60	0	49
19...	0930	3.1	80	0	24	4.3	9.7	1.1	67	0	55

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
06...	19	11	.1	.85	2.0	.210	.25	.72	.19	101	53
19...	19	11	.3	.54	1.7	.067	.57	.54	.14	96	14
NOV.											
03...	21	14	.1	.68	1.6	.065	.48	.46	.19	107	14
16...	23	12	.1	.38	1.2	.005	.05	.86	.14	109	10
DEC.											
08...	20	17	.1	.36	1.2	.063	.20	.54	.18	145	21
28...	24	16	.1	.86	1.5	.045	.27	.67	.10	161	17
JAN.											
12...	29	19	.1	.56	1.6	.010	.45	.61	.096	121	11
25...	21	18	.1	.51	1.6	.012	.30	.64	.096	122	8
FEB.											
09...	23	16	.3	.43	1.7	.005	.11	1.1	.071	127	6
22...	25	18	.0	.75	1.9	.016	.92	.68	.11	129	11
MAR.											
07...	23	14	.0	.74	2.4	.025	.39	1.2	.10	114	28
21...	18	11	.1	.80	1.6	.020	.33	.67	.11	102	26
APR.											
04...	20	12	.1	.50	1.4	.030	.26	.60	.087	118	37
18...	18	9.0	.0	.74	1.4	.009	.10	.80	.21	109	113
MAY											
02...	16	6.6	.1	.02	1.1	.040	.30	.60	.060	82	36
16...	14	8.0	.1	1.6	1.6	.010	.17	1.7	.000	111	73
30...	15	6.0	.1	.66	1.3	.006	.60	.71	.040	86	14
JUNE											
13...	18	8.5	.1	1.6	2.6	.007	.31	.80	.003	107	12
26...	18	8.6	.0	1.1	1.7	.006	.10	.56	.000	90	64
JULY											
11...	18	9.1	.1	.02	1.0	.000	.10	.50	.082	82	10
25...	20	9.1	.1	.04	1.0	.000	.05	.71	.065	90	12
AUG.											
08...	20	[illegible]	.0	.80	1.6	.100	.60	.62	.12	119	12
22...	20	11	.0	[illegible]	[illegible]	.040	.40	.70	.02	106	11
SEP.											
05...	24	11	.0	.50	1.3	.008	.03	.64	.12	102	6
19...	20	16	.1	.64	2.3	.019	.41	1.0	.15	119	8

01359560 HUDSON RIVER AT GLENMONT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
06...	68	20	175	7.0	59	.06	--	--	--	--
19...	59	16	170	7.1	18	.05	--	--	--	--
NOV.										
03...	69	21	194	7.1	9	.06	7	0	--	<.5
16...	69	20	187	7.1	16	.06	--	--	--	--
DEC.										
08...	99	29	248	7.4	16	.06	--	--	--	--
28...	98	24	239	7.6	12	.05	7	80	16	<.5
JAN.										
12...	81	23	205	7.2	13	.04	--	--	--	--
25...	79	23	209	7.3	15	.05	--	--	--	--
FEB.										
09...	79	21	214	7.2	14	.06	7	30	140	<.5
22...	78	22	223	7.4	13	.06	--	--	--	--
MAR.										
07...	69	19	187	7.4	12	.04	8	30	--	<.5
21...	71	21	178	7.1	14	.04	7	10	16	<.5
APR.										
04...	85	25	205	7.3	11	.04	--	--	--	--
18...	80	21	188	7.2	15	.06	--	--	--	--
MAY										
02...	56	18	146	7.8	10	.03	--	--	--	--
16...	73	22	191	7.5	22	.06	--	--	--	--
30...	61	18	153	7.3	11	.03	--	--	--	--
JUNE										
13...	71	17	176	7.2	8	.05	--	--	--	--
26...	68	15	161	7.7	15	.04	12	0	8	<.5
JULY										
11...	66	14	163	7.6	10	.04	5	0	16	<.5
25...	65	18	164	7.3	15	.04	--	--	--	--
AUG.										
08...	75	21	192	7.3	10	.04	--	--	--	--
22...	68	23	187	7.6	16	.07	--	--	--	--
SEP.										
05...	68	19	182	7.5	16	.08	--	--	--	--
19...	78	23	206	7.3	14	.05	--	--	--	--

01359803 HUDSON RIVER AT COEYMANS, N.Y.

LOCATION.--Lat 42°28'37", long 73°47'20", Albany County, at dock at Powell and Minnock Brick Works, 0.4 mile upstream from Coeymans Creek, and 0.4 mile northeast of Coeymans.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
06...	1000	3.8	120	0	19	3.4	6.8	1.2	54	0	44
NOV.											
03...	1030	4.1	160	0	19	3.8	7.8	1.2	55	0	45
DEC.											
08...	1015	4.7	130	10	26	5.5	15	1.4	74	0	61
JAN.											
12...	1030	5.9	70	110	23	5.5	13	1.3	76	0	62
FEB.											
09...	1020	6.0	50	0	25	4.9	12	1.2	76	0	62
MAR.											
07...	1030	4.8	150	0	20	4.8	9.0	2.0	58	0	48
APR.											
04...	1045	5.0	170	0	26	5.0	9.0	1.7	73	0	60
MAY											
02...	1015	4.8	110	0	17	3.1	4.6	.8	50	0	41
30...	1030	4.1	50	0	18	3.1	5.6	1.0	51	0	42
JUNE											
26...	1045	4.7	140	0	17	3.1	4.1	1.3	54	0	44
JULY											
25...	1030	3.9	100	0	21	3.9	5.8	1.0	64	0	52
AUG.											
22...	1030	3.4	120	20	23	4.3	7.9	.9	60	0	49
SEP.											
19...	1000	3.2	110	0	24	4.2	9.1	1.1	67	0	55

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
06...	18	9.5	.1	.75	1.9	.173	.20	.79	.12	94	14
NOV.											
03...	19	11	.1	.56	1.5	.080	.46	.47	.12	97	16
DEC.											
08...	26	21	.0	.48	1.3	.024	.40	.47	.17	140	14
JAN.											
12...	24	20	.1	.77	1.7	.012	.31	.63	.083	137	13
FEB.											
09...	24	17	.2	.53	1.8	.057	.11	1.1	.075	134	7
MAR.											
07...	24	14	.0	.56	2.3	.031	.40	1.3	.10	114	62
APR.											
04...	20	15	.1	.92	1.7	.029	.26	.50	.090	120	27
MAY											
02...	15	7.0	.1	.30	1.0	.018	.26	.40	.097	80	12
30...	17	8.0	.1	.71	2.1	.000	.09	1.3	.074	88	16
JUNE											
26...	14	6.9	.0	.49	1.2	.000	.18	.50	.076	70	29
JULY											
25...	17	8.5	.0	.38	1.4	.130	.17	.76	.080	91	11
AUG.											
22...	22	12	.0	.67	2.0	.200	.14	1.0	.10	109	10
SEP.											
19...	29	13	.1	.79	2.1	.160	.29	.90	.084	122	5

01359803 HUDSON RIVER AT COEYMANS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
06...	61	17	161	7.1	25	.06	--	--	--	--
NOV.										
03...	63	18	171	7.1	18	.07	9	0	--	<.5
DEC.										
08...	88	27	242	7.2	19	.03	--	--	--	--
JAN.										
12...	80	18	242	7.2	16	.05	--	--	--	--
FEB.										
09...	83	20	230	7.2	8	.05	7	10	27	<.5
MAR.										
07...	70	22	190	7.3	12	.03	4	30	13	<.5
APR.										
04...	86	26	212	7.5	8	.03	--	--	--	--
MAY										
02...	55	14	141	7.7	10	.04	--	--	--	--
30...	58	16	153	7.2	9	.07	--	--	--	--
JUNE										
26...	55	11	136	7.6	13	.04	11	0	13	<.5
JULY										
25...	68	16	172	7.4	11	.03	--	--	--	--
AUG.										
22...	75	26	197	7.6	15	.05	--	--	--	--
SEP.										
19...	77	22	200	7.5	15	.06	--	--	--	--

01359803 HUDSON RIVER AT COEYMANS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
06...	61	17	161	7.1	25	.06	--	--	--	--
NOV.										
03...	63	18	171	7.1	18	.07	9	0	--	<.5
DEC.										
08...	88	27	242	7.2	19	.03	--	--	--	--
JAN.										
12...	80	18	242	7.2	16	.05	--	--	--	--
FEB.										
09...	83	20	230	7.2	8	.05	7	10	27	<.5
MAR.										
07...	70	22	190	7.3	12	.03	4	30	13	<.5
APR.										
04...	86	26	212	7.5	8	.03	--	--	--	--
MAY										
02...	55	14	141	7.7	10	.04	--	--	--	--
30...	58	16	153	7.2	9	.07	--	--	--	--
JUNE										
26...	55	11	136	7.6	13	.04	11	0	13	<.5
JULY										
25...	68	16	172	7.4	11	.03	--	--	--	--
AUG.										
22...	75	26	197	7.6	15	.05	--	--	--	--
SEP.										
19...	77	22	200	7.5	15	.06	--	--	--	--

01361450 HUDSON RIVER AT CATSKILL, N.Y.

LOCATION.--Lat 42°12'36", long 73°51'12", Greene County, at right bank at Greene County Highway Department dock, 600 ft upstream from Catskill Creek, and 0.9 mile downstream from Rip Van Winkle Bridge.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
06...	1100	3.6	80	0	20	3.5	7.4	1.4	53	0	43
NOV.											
03...	1115	4.1	110	0	20	4.0	8.1	1.3	57	0	47
DEC.											
08...	1115	4.7	130	0	24	4.9	9.6	1.3	69	0	57
JAN.											
12...	1130	5.4	70	40	23	4.2	8.0	1.0	62	0	51
FEB.											
09...	1201	5.8	60	0	23	4.3	11	1.2	66	0	54
MAR.											
07...	1145	4.6	300	0	22	3.7	10	2.2	55	0	45
APR.											
04...	1200	5.1	150	0	25	5.0	7.7	1.4	76	0	62
MAY											
02...	1115	4.8	110	0	20	3.4	5.5	.8	52	0	43
30...	1130	4.1	40	0	18	3.0	4.9	.8	52	0	43
JUNE											
26...	1145	4.7	190	0	18	3.1	3.7	.8	55	0	45
JULY											
25...	1130	3.3	80	0	24	4.2	6.3	1.1	71	0	58
AUG.											
22...	1130	.7	50	30	23	4.3	8.5	1.0	67	0	55
SEP.											
19...	1130	1.3	90	0	23	4.1	8.8	1.1	63	0	52

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
06...	18	12	.1	.60	1.3	.004	.03	.70	.15	96	43
NOV.											
03...	20	12	.1	.82	1.6	.063	.11	.65	.10	102	29
DEC.											
08...	24	14	.0	.25	.99	.039	.24	.47	.20	120	65
JAN.											
12...	22	13	.0	.33	1.1	.009	.35	.47	.077	110	17
FEB.											
09...	23	17	.2	.37	1.6	.006	.25	.98	.068	123	7
MAR.											
07...	30	17	.1	.72	2.5	.045	.58	1.2	.15	124	57
APR.											
04...	21	12	.1	.44	1.4	.024	.25	.71	.078	119	15
MAY											
02...	16	8.2	.1	.42	1.1	.035	.15	.56	.031	88	12
30...	17	7.2	.1	.69	1.4	.004	.05	.67	.12	84	72
JUNE											
26...	13	4.5	.0	.72	1.4	.005	.26	.50	.065	78	26
JULY											
25...	22	10	.1	.47	1.4	.085	.19	.72	.075	110	16
AUG.											
22...	20	13	.0	.54	1.4	.041	.18	.66	.072	107	12
SEP.											
19...	21	13	.0	.52	1.5	.012	.10	.90	.10	108	15

01361450 HUDSON RIVER AT CATSKILL, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
06...	64	21	168	7.3	28	.05	--	--	--	--
NOV.										
03...	66	20	185	7.2	16	.06	9	0	--	<.5
DEC.										
08...	80	24	207	7.2	13	.06	--	--	--	--
JAN.										
12...	75	24	189	7.3	10	.04	--	--	--	--
FEB.										
09...	75	21	211	7.3	14	.06	6	20	14	<.5
MAR.										
07...	70	25	198	7.3	15	.04	6	0	11	<.5
APR.										
04...	83	21	208	7.3	3	.07	--	--	--	--
MAY										
02...	64	21	154	7.8	9	.03	--	--	--	--
30...	57	15	148	7.4	20	.04	--	--	--	--
JUNE										
26...	58	13	136	7.7	12	.04	10	0	16	<.5
JULY										
25...	77	19	187	7.4	10	.04	--	--	--	--
AUG.										
22...	75	20	202	7.7	11	.05	--	--	--	--
SEP.										
19...	74	23	194	7.5	14	.06	--	--	--	--

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.
(Hydrologic bench-mark station)

LOCATION.--Lat 42°06'59", long 74°23'20", Ulster County, temperature recorder at gaging station at Shandaken, 0.5 mile downstream from Bushnellsville Creek, and 1.3 miles upstream from Shandaken Tunnel Outlet.

DRAINAGE AREA.--59.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1963 to September 1972.
Water temperatures: July 1963 to July 1968, January 1970 to September 1972.

EXTREMES.--1971-72:
Water Temperatures: Maximum, 24.0°C Aug. 24, 26; minimum, freezing point on many days during January and February.

Period of Record:
Water Temperatures: Maximum, 28.5°C Aug. 16, 1965; minimum, freezing point on many days during winter period.

REMARKS.--No water temperature record Jan. 13-19.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT.												
01...	1100	56	2.6	6.0	1.3	1.9	.4	15	12	6.5	1.8	.0
27...	1100	62	2.6	5.5	1.4	1.5	.4	20	16	7.6	1.5	.0
NOV.												
29...	1445	56	2.4	6.0	1.2	1.6	.3	14	11	7.6	3.8	.0
JAN.												
26...	1030	100	3.1	4.8	1.2	1.8	.3	10	8	9.0	3.0	.0
MAR.												
07...	0930	296	3.0	4.0	1.1	1.6	.4	9	7	7.7	2.7	.0
APR.												
05...	1030	180	2.8	5.1	1.2	1.6	.3	10	8	8.5	2.5	.0
MAY												
04...	0950	400	2.4	4.7	1.0	1.2	.3	8	7	8.1	2.0	.1
JUNE												
06...	0900	158	2.7	5.3	1.1	3.1	.2	12	10	7.1	2.0	.1
22...	1230	789	2.4	3.9	1.0	.9	.3	8	7	9.3	1.2	.0
JULY												
11...	1010	214	3.0	5.0	1.1	1.3	.2	12	10	7.6	1.5	.0
AUG.												
09...	1200	38	2.9	5.8	1.2	1.9	.4	16	13	7.6	2.5	.0
SEP.												
07...	1030	13	2.7	7.0	1.4	2.5	.4	19	16	7.6	3.5	.0

DATE	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
01...	.10	.000	21	20	8	54	7.0	12.0	16.6	.9	6	10
27...	.06	.000	31	19	3	50	7.4	11.5	12.9	--	--	--
NOV.												
29...	.20	.010	31	20	8	50	7.3	3.0	10.6	1.7	8	2
JAN.												
26...	--	.009	28	17	9	51	6.9	.0	13.2	--	2	2
MAR.												
07...	--	.000	25	15	7	48	7.0	.5	13.7	1.4	--	--
APR.												
05...	--	.001	27	18	9	47	6.9	2.0	12.4	.9	0	6
MAY												
04...	--	--	24	16	9	43	6.8	7.0	8.8	1.7	14	200
JUNE												
06...	.30	.011	29	18	8	45	6.2	11.0	11.4	--	--	--
22...	.50	--	25	14	7	39	6.5	14.0	--	--	--	170
JULY												
11...	.09	.058	26	17	7	45	7.1	14.0	9.2	--	--	--
AUG.												
09...	.20	.012	31	19	6	55	7.5	17.5	8.2	.0	20	210
SEP.												
07...	.05	.009	35	23	8	64	7.6	15.0	--	3.7	8	570

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
01...	0	1	4	0	100	4	0	0	0	12	20
JUNE											
22...	--	--	--	--	530	--	60	--	--	--	--

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	METH-OXY-CHLOR (UG/L)	TOX-APHENE (UG/L)
OCT.												
01...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
NOV.												
29...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	--	--
SEP.												
07...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	--	--

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.												
01...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	--
NOV.												
29...	.00	--	.00	.00	--	.00	--	.00	.00	.00	ND	--
SEP.												
07...	.00	--	.00	.00	--	.00	--	.00	.00	.00	ND	.5

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
DEC.								
28...	<.1	<.4	<.1	<.4	1.2	1.0	<.4	<.4

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.				
27...	1210	62	1	.17
NOV.				
24...	1345	58	1	.16
29...	1445	58	2	.31
DEC.				
28...	1230	206	1	.56
JAN.				
26...	1210	120	1	.32
MAR.				
07...	1200	237	2	1.3
APR.				
05...	1230	150	<1	.40
MAY				
04...	1330	483	27	35
JUNE				
06...	0950	158	1	.43
JULY				
11...	1115	214	3	1.7
AUG.				
09...	1105	950	2	5.1
SEP.				
07...	1215	130	1	.35

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	10.5	14.0	10.0	3.0	2.0	2.0	1.5	0.0	0.0	5.0	1.5
2	17.0	12.5	14.0	12.5	2.0	2.0	2.5	1.5	0.0	0.0	3.0	2.0
3	14.0	13.5	13.0	9.5	2.5	2.0	2.0	1.5	0.0	0.0	2.0	1.5
4	13.5	12.5	9.5	8.0	4.0	2.5	3.0	1.5	0.0	0.0	2.0	1.0
5	16.0	13.0	9.0	7.0	3.0	3.0	3.0	1.0	0.0	0.0	2.5	1.0
6	13.5	11.5	8.5	6.5	3.0	3.0	1.0	1.0	0.0	0.0	1.5	1.0
7	12.0	9.5	9.0	6.0	4.5	3.0	1.0	1.0	0.0	0.0	3.0	1.0
8	12.5	9.0	6.0	5.5	5.0	4.0	1.0	1.0	0.0	0.0	2.5	1.0
9	11.0	9.0	5.5	4.0	5.0	5.0	1.0	1.0	0.0	0.0	2.5	1.0
10	11.5	11.0	6.5	5.5	5.5	5.0	2.5	1.0	0.0	0.0	2.0	1.5
11	12.5	10.5	6.0	5.5	6.0	5.5	2.5	2.0	0.0	0.0	1.5	1.5
12	11.5	9.5	6.0	5.5	6.0	5.0	2.5	1.5	0.0	0.0	2.0	1.5
13	12.0	8.0	7.0	5.5	6.0	4.5	---	---	0.0	0.0	5.0	2.0
14	13.5	10.5	5.5	4.0	4.5	4.0	---	---	0.0	0.0	3.0	1.5
15	14.0	11.0	5.5	4.0	6.0	4.5	---	---	1.0	0.0	3.0	1.5
16	13.0	9.5	7.0	5.5	6.5	5.5	---	---	1.0	0.0	5.5	2.5
17	13.0	10.0	8.0	5.0	5.5	5.0	---	---	0.0	0.0	3.5	2.5
18	12.0	9.0	7.5	5.5	5.0	3.0	---	---	0.5	0.0	3.5	2.5
19	12.0	8.0	8.0	5.5	3.0	2.5	---	---	0.5	0.0	5.0	2.0
20	12.0	10.0	8.5	6.5	3.5	3.0	0.0	0.0	0.0	0.0	4.5	1.5
21	12.5	8.5	6.5	6.0	4.5	3.5	1.0	0.0	0.0	0.0	6.5	2.0
22	12.0	8.0	6.0	4.0	4.0	2.0	0.5	0.0	0.0	0.0	4.0	3.0
23	13.5	10.0	4.0	2.0	2.0	2.0	3.0	0.5	0.0	0.0	3.0	2.5
24	12.5	10.5	2.5	2.0	4.0	2.0	2.0	1.5	0.0	0.0	2.5	2.0
25	11.5	10.5	2.5	2.0	4.0	2.0	2.0	0.0	0.5	0.0	3.5	2.0
26	12.5	11.5	3.0	2.0	4.5	2.5	0.0	0.0	0.5	0.0	4.0	1.5
27	13.0	11.5	4.0	3.0	4.0	3.5	0.0	0.0	0.5	0.0	2.5	1.5
28	14.5	12.0	4.5	4.0	5.0	3.5	0.0	0.0	1.0	0.5	5.0	1.5
29	13.0	10.0	4.5	2.0	3.5	3.0	0.0	0.0	2.0	1.0	7.0	2.0
30	11.5	8.5	4.0	2.0	3.0	1.5	0.0	0.0	---	---	3.5	3.0
31	11.0	10.0	---	---	2.5	1.5	0.0	0.0	---	---	5.5	3.0
MONTH	17.0	8.0	14.0	2.0	6.5	1.5	---	---	2.0	0.0	7.0	1.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	2.5	8.5	6.5	12.5	10.0	13.0	12.0	19.5	16.0	22.5	19.5
2	5.0	3.0	9.0	6.5	14.0	9.0	14.0	12.0	19.0	17.0	21.5	19.0
3	4.5	2.5	9.0	8.0	16.0	9.0	13.5	12.5	18.0	17.0	22.5	20.0
4	2.5	2.0	8.0	6.5	14.5	10.5	13.5	12.5	20.0	17.0	22.0	20.0
5	4.5	2.0	6.5	5.5	15.5	10.5	13.0	12.0	19.5	15.5	21.5	17.0
6	4.5	2.0	11.0	5.0	16.0	11.0	13.0	11.5	19.5	15.5	20.5	15.5
7	5.5	2.0	11.0	7.0	15.0	11.0	13.0	12.0	19.0	17.5	22.0	15.5
8	6.5	2.0	7.5	7.0	14.0	9.5	14.0	11.5	18.5	17.0	22.0	17.0
9	7.0	2.0	7.0	6.5	15.5	11.0	15.0	12.0	19.5	16.5	20.5	18.0
10	5.0	2.0	8.5	6.0	13.5	9.5	15.0	13.0	18.5	16.0	20.0	15.0
11	6.0	2.0	10.5	5.0	15.5	8.0	17.5	14.0	18.5	14.5	20.0	14.5
12	8.0	2.5	12.5	5.5	12.0	8.5	17.5	14.5	18.0	16.5	21.0	17.0
13	4.0	3.5	13.5	6.0	14.0	10.5	17.0	15.0	21.0	17.5	19.5	17.5
14	5.0	3.0	9.0	8.0	16.5	11.5	16.5	14.5	20.5	18.0	18.5	17.5
15	3.5	3.0	11.5	8.5	20.5	13.5	19.5	15.5	20.0	17.5	20.0	15.0
16	7.0	3.5	12.0	9.0	17.0	13.5	19.0	16.5	19.0	14.5	20.0	15.0
17	8.0	4.0	11.0	8.0	17.5	13.0	19.5	16.5	18.0	17.0	21.5	15.5
18	8.0	3.5	13.0	8.0	17.5	12.5	19.0	17.5	19.5	16.5	22.0	17.5
19	8.5	4.0	13.5	8.0	15.5	13.5	20.0	17.0	21.5	17.5	20.5	17.5
20	5.5	3.5	11.0	9.5	19.0	13.5	20.0	18.0	22.0	17.0	19.5	15.5
21	7.0	3.5	15.5	9.0	17.0	15.0	19.0	17.5	22.5	16.5	17.5	14.5
22	4.0	3.5	16.0	9.5	15.0	13.0	21.0	17.5	22.5	17.5	18.5	15.0
23	7.0	4.0	17.0	8.0	13.5	11.5	21.5	19.0	23.0	18.5	16.5	12.5
24	6.0	4.5	18.0	9.0	11.5	11.0	21.5	19.0	24.0	20.5	14.5	13.0
25	7.5	4.0	17.0	10.0	11.0	11.0	21.0	18.5	23.5	20.5	18.0	13.5
26	8.0	3.0	16.0	8.5	11.0	11.0	19.5	17.5	24.0	21.0	19.0	16.0
27	6.5	3.5	17.5	8.5	12.0	11.0	19.0	17.0	23.5	21.5	18.5	17.0
28	9.0	3.0	18.0	9.0	13.0	11.5	19.0	16.5	23.0	21.0	17.0	14.0
29	11.0	4.0	19.0	9.5	14.0	12.0	18.5	16.5	23.0	19.5	15.0	14.0
30	11.5	4.0	16.5	11.0	13.0	12.5	18.5	16.0	23.5	19.5	15.0	13.0
31	---	---	14.0	12.0	---	---	18.0	16.0	23.5	19.0	---	---
MONTH	11.5	2.0	19.0	5.0	20.5	8.0	21.5	11.5	24.0	14.5	22.5	12.5
YEAR	24.0	0.0										

01372003 WALLKILL RIVER NEAR ROSENDALE, N.Y.

LOCATION.--Lat 41°48'53", long 74°03'33", Ulster County, at bridge on State Highway 32 and 213, 0.2 mile upstream from Interstate Highway 87, 1.0 mile south of Tillson, and 1.7 miles southeast of Rosendale.

PERIOD OF RECORD.--Chemical analyses: April 1969 to May 1970, May 1971 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 21...	1200	6.5	150	0	34	8.1	9.2	2.1	89	0
JUNE 15...	1300	6.1	120	0	29	7.5	7.5	1.1	92	0
SEP. 26...	1200	.1	20	0	52	12	15	2.5	162	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT. 21...	73	37	16	.1	.60	1.5	.011	.15	.75	.17
JUNE 15...	75	25	13	.1	.61	1.4	.008	.07	.75	.11
SEP. 26...	133	49	25	.1	.82	2.4	.167	1.1	.33	.38

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 21...	162	24	120	45	278	7.3	15.0	180	.05
JUNE 15...	139	21	100	28	242	7.6	21.0	21	.04
SEP. 26...	240	15	180	46	412	8.0	22.0	15	.08

01372005 RONDOUT CREEK AT EDDYVILLE, N.Y.

LOCATION.--Lat 41°53'39", long 74°01'13", Ulster County, just upstream of dam about 200 ft upstream from bridge on State Highway 213 at Eddyville and 1.2 miles upstream from Twaalfskill Brook.

PERIOD OF RECORD.--Chemical analyses: April 1969 to May 1970, May 1971 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 21...	1100	6.5	100	20	29	6.5	7.6	2.2	74	0
JUNE 15...	1350	5.1	120	0	22	4.7	5.9	1.3	66	0
SEP. 26...	1300	2.1	30	0	46	11	12	2.1	140	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT. 21...	61	33	14	.1	.84	1.8	.010	.17	.80	.12
JUNE 15...	54	19	9.0	.1	.95	1.9	.008	.26	.71	.089
SEP. 26...	115	37	18	.1	.59	1.1	.003	.04	.55	.17

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT. 21...	140	12	99	38	236	7.4	15.0	26	.05
JUNE 15...	104	79	74	20	179	7.4	21.0	21	.03
SEP. 26...	200	6	160	45	352	7.9	22.0	13	.04

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.

LOCATION (revised).—Lat 41°43'18", long 73°56'28", Dutchess County, at city pumping station on east bank, adjacent (north) to Marist College, 0.5 mile north of Poughkeepsie and 1.3 miles upstream from Mid-Hudson Bridge.

DRAINAGE AREA.—11,700 sq mi.

PERIOD OF RECORD.—Chemical analyses: April 1969 to September 1972.
Water temperatures: June 1959 to September 1966.

COOPERATION.—Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
27...	1100	3.2	70	0	23	4.3	7.6	1.5	62	0
DEC.										
13...	1030	4.7	80	0	23	4.5	9.0	1.3	62	0
JAN.										
18...	--	5.8	90	0	25	5.0	8.9	1.0	78	0
FEB.										
08...	--	5.6	50	0	25	5.2	9.5	1.3	72	0
APR.										
10...	--	5.2	140	0	23	4.4	7.0	1.2	66	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
OCT.									
27...	51	21	11	.0	.42	1.2	.004	.06	.75
DEC.									
13...	51	25	12	.1	.34	1.2	.032	.13	.75
JAN.									
18...	64	25	14	.0	.56	1.6	.004	.18	.87
FEB.									
08...	59	25	14	.0	.52	1.6	.003	.07	1.0
APR.									
10...	54	21	12	.0	.80	1.6	.030	.09	.77

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.									
27...	.090	106	11	75	24	188	7.4	12	.05
DEC.									
13...	.12	114	28	76	25	199	7.4	14	.06
JAN.									
18...	.12	128	31	83	19	212	7.4	12	.03
FEB.									
08...	.077	126	21	84	25	220	7.2	11	.06
APR.									
10...	.20	111	69	76	21	193	7.6	16	.05

01372058 HUDSON RIVER BELOW POUGHKEEPSIE, N.Y.

LOCATION.--Lat 41°39'03", long 73°56'42", Dutchess County, at intake of IBM water treatment plant on left bank, 2.3 miles south of Poughkeepsie and 3.5 miles downstream of Mid-Hudson Bridge.

DRAINAGE AREA.--11,740 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to July 1972 (discontinued).

CHEMICAL ANALYSES, OCTOBER 1971 TO JULY 1972

DATE	TIME	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.							
07...	1030	.70	.70	.11	192	7.1	20.5
NOV.							
02...	1330	.64	.70	.15	230	6.1	16.5
DEC.							
08...	1130	.40	.60	.080	265	6.2	3.0
JAN.							
06...	1400	.38	.70	.094	275	6.2	.0
FEB.							
09...	1000	.63	1.0	.051	310	6.6	.0
MAR.							
09...	1225	.76	.90	.12	285	7.2	1.0
APR.							
06...	1215	.40	.70	.059	190	7.1	4.0
MAY							
02...	0940	1.0	.70	.077	170	6.9	9.5
JUNE							
07...	1115	1.2	.80	.13	155	7.1	19.5
JULY							
07...	1215	.89	.60	.080	170	8.2	21.0

DATE	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.							
07...	3	6.5	12	2.2	0	180	.05
NOV.							
02...	20	8.5	19	2.9	110	3700	.06
DEC.							
08...	6	12.2	14	7.7	--	--	.04
JAN.							
06...	10	11.4	13	3.1	15	133	.14
FEB.							
09...	10	8.5	12	1.9	5	66	.04
MAR.							
09...	14	13.8	14	4.8	43	830	.05
APR.							
06...	3	10.6	9	1.9	15	230	.06
MAY							
02...	10	7.9	11	.0	23	650	.03
JUNE							
07...	25	8.0	17	2.6	490	6800	.04
JULY							
07...	10	8.2	18	--	170	6400	.03

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.

LOCATION.--Lat 41°39'11", Long 73°52'23", Dutchess County, at gaging station 700 ft downstream from Red Oak Mill dam and 4.3 miles northeast of Wappingers Falls.

DRAINAGE AREA.--181 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1964, August 1965 to September 1972.
Water temperatures: October 1963 to September 1964.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 19...	1415	221	6.6	20	0	40	9.6	11	1.4	129	0	106
NOV. 30...	1600	1240	6.0	30	0	24	6.3	6.0	2.0	75	0	62
DEC. 20...	1215	380	6.5	20	0	35	8.8	8.0	1.1	110	0	90
JAN. 24...	1400	399	5.9	--	0	32	8.7	8.0	.9	102	0	84
FEB. 24...	1030	151	6.1	40	0	34	9.4	8.6	1.0	112	0	92
MAR. 28...	1015	515	5.4	50	0	31	7.6	9.4	1.0	90	0	74
31...	1230	441	4.9	--	--	31	7.8	6.8	.9	90	0	74
APR. 21...	1015	1440	5.1	20	0	23	4.3	5.3	1.0	66	0	54
MAY 24...	1050	410	4.4	10	0	32	7.8	7.1	.8	104	0	85
JUNE 01...	1130	1200	8.2	30	0	27	4.9	5.5	1.2	79	0	65
JULY 17...	1350	290	5.3	20	0	36	9.0	7.7	.8	126	0	103
AUG. 22...	1300	54	4.9	10	0	42	12	11	1.1	153	0	125
SEP. 25...	1100	27	2.8	10	0	44	13	13	1.3	156	0	128

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 19...	25	19	.0	.30	1.2	.008	.11	.87	.020	181	4	140
NOV. 30...	20	10	.0	.82	1.9	.018	.25	.84	.090	116	38	86
DEC. 20...	27	13	.0	.42	1.7	.003	.19	1.1	.020	159	4	120
JAN. 24...	24	14	.0	.97	2.1	.006	.05	1.1	.019	150	4	120
FEB. 24...	28	13	.0	.24	1.4	.008	.05	1.1	.018	161	4	120
MAR. 28...	26	17	.0	.28	1.5	.009	.09	1.1	.027	147	13	110
31...	23	12	.1	--	--	--	--	.90	--	--	--	110
APR. 21...	20	8.0	.0	.60	1.3	.005	.11	.60	.051	103	32	75
MAY 24...	23	12	.1	.38	1.1	.004	.02	.70	.038	142	12	110
JUNE 01...	19	12	.0	--	--	.007	.60	.74	--	121	44	88
JULY 17...	21	12	.0	.46	1.1	.010	.06	.60	.023	157	6	130
AUG. 22...	25	18	.0	.62	1.3	.011	.02	.69	.027	193	6	150
SEP. 25...	30	21	.0	.40	.97	.006	.07	.50	.018	205	2	160

CONTINUED NEXT PAGE

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
19...	34	301	7.9	12.0	--	6	.04	--	--	--	--
NOV.											
30...	24	200	7.3	1.5	10.4	17	.02	--	10	5	<.5
DEC.											
20...	33	272	7.7	1.5	14.2	5	.03	--	--	--	--
JAN.											
24...	32	261	7.8	3.5	12.8	9	.04	--	--	--	--
FEB.											
24...	32	283	7.9	.0	--	6	.02	--	--	--	--
MAR.											
28...	35	258	7.8	1.5	13.4	7	.06	6	0	5	<.5
31...	36	239	7.6	5.0	--	--	--	--	--	--	--
APR.											
21...	21	180	7.0	8.0	10.1	12	.05	--	--	--	--
MAY											
24...	27	254	7.8	14.0	6.8	5	.02	--	--	--	--
JUNE											
01...	23	194	7.5	16.0	8.2	--	--	--	--	--	--
JULY											
17...	24	282	8.2	22.5	9.1	10	.02	--	--	--	--
AUG.											
22...	29	348	8.3	21.5	9.8	4	.03	--	--	--	--
SEP.											
25...	35	367	8.3	16.0	10.2	5	.02	--	--	--	--

01372550 HUDSON RIVER NEAR CHELSEA, N.Y.

LOCATION.--Lat 41°34'20", long 73°57'45", Dutchess County, approximately 0.2 mile southeast of Danskammer Point on a line between Danskammer Point and Chelsea Pumping Station, 1.3 miles north of Chelsea and approximately 0.8 mile downstream from Wappinger Creek.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
13...	0900	3.2	70	0	23	4.3	7.3	1.6	63	0	52
27...	0900	3.2	60	10	24	4.8	8.4	1.5	69	0	57
NOV.											
10...	0900	3.6	100	0	23	4.6	8.0	1.5	65	0	53
24...	0830	3.7	50	0	25	4.9	8.4	1.6	66	0	54
DEC.											
08...	0845	4.1	50	0	24	4.8	9.6	1.3	68	0	56
22...	0900	4.9	60	0	27	5.3	8.9	1.7	75	0	62
JAN.											
05...	0900	5.6	60	0	26	5.2	7.5	1.5	72	0	59
19...	0925	5.7	100	0	27	5.6	8.6	1.3	76	0	62
FEB.											
02...	0900	5.8	150	0	26	5.3	9.2	1.3	73	0	60
09...	0900	5.8	50	0	27	5.6	9.8	1.3	76	0	62
16...	0900	5.5	70	0	25	5.4	10	1.4	72	0	59
MAR.											
01...	0905	5.3	100	0	24	4.9	11	1.4	68	0	56
15...	0920	5.1	170	0	21	4.1	11	1.6	55	0	45
29...	0830	4.7	120	0	21	3.6	7.0	1.5	55	2	49
APR.											
12...	0905	5.4	70	0	24	4.5	7.3	1.1	62	0	51
26...	0920	4.4	110	0	20	3.6	4.5	1.0	56	0	46
MAY											
10...	0700	4.8	210	0	17	3.1	4.1	.9	45	0	37
24...	0930	4.4	40	0	18	3.4	4.6	.8	50	0	41
JUNE											
07...	0900	3.8	60	0	18	3.1	4.5	1.0	50	0	41
21...	0845	3.8	50	0	22	4.9	6.3	1.1	70	0	57
JULY											
05...	0900	4.9	70	0	19	3.5	4.2	1.0	55	0	45
19...	0900	8.0	50	0	75	21	12	2.1	173	0	142
AUG.											
02...	0900	3.6	120	0	21	4.2	5.1	1.0	64	0	52
16...	0850	2.6	60	0	24	4.5	5.8	1.1	69	0	57
30...	0840	1.1	80	0	24	5.2	10	1.3	72	0	59
SEP.											
13...	0900	.6	50	0	26	5.0	9.5	1.3	73	0	60
27...	0905	.6	70	0	26	5.6	15	1.6	75	0	62

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TUTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
13...	24	12	.1	.44	1.3	.005	.07	.78	.12	111	16
27...	22	12	.1	.46	1.2	.004	.04	.72	.090	114	8
NOV.											
10...	24	12	.1	.94	1.7	.005	.12	.68	.11	113	18
24...	23	15	.1	.58	1.4	.007	.21	.63	.11	118	14
DEC.											
08...	23	12	.1	.40	1.1	.017	.04	.72	.11	116	19
22...	27	14	.1	.58	1.6	.002	.21	.90	.12	131	35
JAN.											
05...	25	12	.1	.56	1.6	.050	.19	.82	.12	123	30
19...	25	13	.0	.38	1.4	.007	.15	.92	.13	129	26
FEB.											
02...	28	16	.0	.48	1.6	.060	.16	.94	.076	133	16
09...	26	15	.0	.42	1.6	.005	.12	1.0	.068	133	25
16...	27	15	.1	.71	1.9	.008	.17	1.0	.080	131	18
MAR.											
01...	25	18	.0	.66	1.8	.005	.11	1.1	.099	129	18
15...	23	19	.1	.62	1.8	.071	.37	.83	.14	117	34
29...	20	10	.0	.50	1.3	.027	.24	.62	.092	101	26
APR.											
12...	21	12	.1	.58	1.4	.030	.21	.66	.082	110	23
26...	19	6.9	.0	.56	1.3	.006	.15	.64	.15	91	55
MAY											
10...	22	6.0	.0	.51	1.2	.014	.07	.69	.093	84	76
24...	18	6.5	.0	.17	.78	.003	.00	.61	.054	83	25
JUNE											
07...	17	7.1	.0	.82	1.9	.005	.44	.70	.087	84	33
21...	20	8.7	.0	.56	1.5	.006	.24	.74	.095	105	33
JULY											
05...	16	5.5	.0	.63	1.2	.008	.11	.52	.065	84	22
19...	130	9.5	.1	.36	1.5	.011	.15	1.0	.071	348	15
AUG.											
02...	17	7.3	.0	.40	1.0	.006	.05	.59	.10	94	24
16...	17	8.6	.0	.31	1.0	.010	.10	.60	.088	101	14
30...	20	18	.0	.44	1.1	.000	.05	.65	.10	118	17
SEP.											
13...	20	13	.0	.34	1.0	.004	.05	.69	.098	115	15
27...	22	25	.1	.51	.65	.001	.04	.10	.10	134	15

01372550 HUDSON RIVER NEAR CHELSEA, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
13...	75	23	194	7.3	14	.04	--	--	--	--
27...	80	23	201	7.5	9	.04	--	--	--	--
NOV.										
10...	76	23	199	7.5	15	.04	--	--	--	--
24...	83	28	206	7.5	8	.05	--	--	--	--
DEC.										
08...	80	24	204	7.2	12	.03	--	--	--	--
22...	89	28	223	7.3	19	.04	--	--	--	--
JAN.										
05...	86	27	210	7.3	13	.04	--	--	--	--
19...	90	28	220	7.5	13	.03	--	--	--	--
FEB.										
02...	87	27	222	7.4	10	.05	--	--	--	--
09...	90	28	228	7.4	10	.04	--	--	--	--
16...	85	26	215	7.3	16	.04	--	--	--	--
MAR.										
01...	80	24	225	7.3	14	.04	--	--	--	--
15...	69	24	196	7.3	17	.03	--	--	--	--
29...	67	19	169	7.2	6	.02	--	--	--	--
APR.										
12...	78	28	189	6.7	6	.02	--	--	--	--
26...	65	19	150	7.7	12	.03	--	--	--	--
MAY										
10...	55	18	134	7.5	18	.03	--	--	--	--
24...	59	18	147	7.4	6	.03	--	--	--	--
JUNE										
07...	58	17	146	7.4	9	.04	--	--	--	--
21...	75	18	193	7.4	13	.04	--	--	--	--
JULY										
05...	62	17	144	7.3	14	.03	--	--	--	--
19...	270	130	569	7.5	6	.04	0	0	5	<.5
AUG.										
02...	70	17	167	7.3	10	.07	--	--	--	--
16...	78	22	183	7.6	8	.02	--	--	--	--
30...	81	22	220	7.7	12	.04	--	--	--	--
SEP.										
13...	86	26	216	7.7	0	.03	9	0	5	<.5
27...	88	26	254	7.7	12	.03	--	--	--	--

01372575 HUDSON RIVER AT BEACON, N.Y.

LOCATION.--Lat 41°30'18", long 73°59'21" (revised), Dutchess County, at point of land in Beacon, 1.0 mile downstream from Beacon-Newburgh Bridge and 0.8 mile upstream from north end of Denning Point.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 21...	1000	3.1	50	0	23	4.7	8.5	1.7	67	0	55
NOV. 11...	1035	3.3	90	40	23	4.9	9.4	1.5	66	0	54
JAN. 05...	0930	5.6	40	0	26	5.4	7.9	1.7	74	0	61
26...	0845	6.0	50	0	27	5.5	9.3	1.3	76	0	62
MAR. 22...	0855	5.2	90	0	25	6.1	20	1.8	65	0	53
APR. 20...	0845	5.0	50	10	26	5.0	8.4	1.3	72	0	59
MAY 17...	0955	4.5	30	0	18	3.1	4.7	.8	47	0	39
JUNE 15...	0940	4.0	70	0	21	4.1	6.0	1.1	58	0	48
JULY 12...	0845	4.8	100	0	20	3.4	4.6	.9	58	0	48
AUG. 09...	1015	2.7	60	0	22	4.6	9.0	1.0	67	0	55
SEP. 07...	0850	.8	50	0	28	6.1	19	1.8	75	0	62

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 21...	23	12	.1	.35	1.1	.002	.07	.74	.10	113	10
NOV. 11...	23	15	.1	.69	1.4	.005	.15	.64	.10	117	27
JAN. 05...	27	12	.1	.46	1.6	.040	.25	.86	.18	127	61
26...	26	15	.1	.80	1.9	.066	.27	.83	.12	133	51
MAR. 22...	26	30	.0	.58	1.6	.067	.21	.80	.12	151	20
APR. 20...	21	15	.0	.72	1.7	.002	.00	1.0	.16	122	70
MAY 17...	16	6.7	.0	2.5	3.2	.009	.09	.65	.084	83	44
JUNE 15...	18	9.0	.0	.73	1.6	.010	.13	.76	.099	96	35
JULY 12...	16	6.0	.0	.42	1.0	.010	.07	.55	.10	87	46
AUG. 09...	17	14	.0	.44	1.1	.008	.03	.66	.11	107	27
SEP. 07...	22	35	.0	.55	1.2	.005	.05	.60	.12	153	30

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 21...	77	22	201	7.5	16	.05	--	--	--	--
NOV. 11...	78	23	212	7.5	13	.04	--	--	--	--
JAN. 05...	87	26	218	7.2	19	.04	--	--	--	--
26...	90	28	227	7.6	11	.03	11	40	--	<.5
MAR. 22...	88	34	269	7.4	10	.04	7	30	0	<.5
APR. 20...	86	26	210	7.0	7	.04	--	--	--	--
MAY 17...	58	19	139	7.2	12	.02	--	--	--	--
JUNE 15...	69	22	170	7.3	10	.04	3	0	--	<.5
JULY 12...	64	16	152	7.3	12	.02	--	--	--	--
AUG. 09...	74	19	197	7.6	7	.04	--	--	--	--
SEP. 07...	95	34	289	8.0	10	.04	9	0	--	<.5

01372800 FISHKILL CREEK AT HOPEWELL JUNCTION, N.Y.

LOCATION.--Lat 41°34'22", long 73°48'25", Dutchess County, temperature recorder at gaging station on right bank 400 ft upstream from bridge on State Highway 376, 500 ft upstream from small tributary, and 0.6 mile south of State Highway 82, at Hopewell Junction.

DRAINAGE AREA.--57.3 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 23.0°C July 24; minimum, freezing point Mar. 4, 6.

Period of record:
Water temperatures: Maximum, 27.0°C July 13, 1966; minimum, freezing point on many days during winter periods.

REMARKS.--Recorder stopped July 30 to Sept. 9, range in temperature 14.0°C to 21.0°C.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAR. 30...	1445	160	4.8	120	0	32	11	5.1	.9	110	0
JUNE 01...	1445	275	6.6	580	110	29	10	4.7	1.3	116	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
MAR. 30...	90	20	9.4	.0	.80	141	130	35	250	8.0	5.0
JUNE 01...	95	18	7.5	.1	.50	136	110	18	243	7.8	17.0

01372800 FISHKILL CREEK AT HOPEWELL JUNCTION, N.Y.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.5	13.0	12.0	5.5	4.5	4.5	3.5	1.0	1.0	4.0	3.5
2	17.0	16.5	14.5	13.0	4.5	4.0	4.0	3.5	1.5	1.0	4.0	2.0
3	18.0	17.0	14.5	12.0	4.0	3.0	4.5	4.0	2.0	1.5	2.0	0.5
4	18.0	16.5	12.0	9.5	4.0	3.5	4.5	4.0	2.0	1.0	0.5	0.0
5	17.0	16.5	9.5	8.5	4.0	3.0	5.0	4.0	1.5	1.0	1.0	0.5
6	17.0	16.5	8.5	7.0	4.0	3.5	4.0	3.5	1.0	1.0	1.0	0.0
7	16.5	14.5	8.5	8.0	5.5	4.0	3.5	3.0	1.0	1.0	2.0	0.5
8	14.5	13.5	8.0	4.5	5.5	5.5	3.0	3.0	1.0	1.0	2.0	1.5
9	13.5	13.0	4.5	4.0	6.0	5.5	3.5	3.0	1.0	1.0	1.5	0.5
10	14.0	13.0	4.5	4.0	8.0	6.0	4.5	3.5	1.0	1.0	1.0	0.5
11	14.0	14.0	5.0	4.5	8.5	8.0	5.0	4.5	1.0	1.0	1.5	0.5
12	14.0	13.0	5.0	5.0	8.5	6.5	5.0	5.0	1.5	1.0	1.5	1.5
13	13.0	12.0	5.5	5.0	7.0	7.0	6.0	5.0	1.5	1.5	3.0	1.0
14	14.0	12.0	5.0	4.5	8.0	6.5	6.0	4.5	2.0	1.5	3.0	1.0
15	14.5	14.0	4.5	4.0	7.0	6.5	4.5	3.0	3.5	1.0	1.0	0.5
16	14.5	14.5	6.0	4.5	8.5	7.0	3.0	2.0	3.5	3.5	3.0	1.0
17	14.5	14.0	5.5	5.5	8.5	8.0	2.0	1.5	3.5	3.0	3.0	1.5
18	14.0	11.5	5.5	5.0	8.0	6.5	1.5	1.5	3.5	3.0	2.0	1.0
19	12.0	11.5	6.0	5.5	6.5	5.5	3.0	1.5	3.5	1.5	3.0	1.5
20	13.0	11.5	6.5	6.0	6.5	5.5	3.0	2.0	1.5	1.5	3.0	1.0
21	12.0	11.0	7.0	6.5	7.0	6.5	3.0	2.0	1.5	1.0	4.0	2.0
22	11.0	10.5	7.0	6.0	7.0	5.5	3.0	3.0	1.5	1.0	4.5	4.0
23	13.0	11.0	6.0	4.0	5.5	4.5	4.0	3.0	1.5	1.0	5.0	4.0
24	13.0	12.0	4.0	4.0	6.0	5.0	4.0	4.0	1.5	1.0	4.5	4.0
25	12.0	12.0	4.0	2.0	6.0	5.5	4.0	3.5	2.0	1.5	4.0	3.5
26	13.5	12.0	3.0	2.0	6.0	5.5	3.5	1.0	2.0	1.5	4.0	3.0
27	13.5	13.5	4.5	3.0	6.5	6.0	1.0	0.5	1.5	1.5	3.5	3.0
28	14.5	13.5	5.0	4.5	7.0	6.5	1.0	0.5	3.5	1.5	4.0	2.0
29	14.5	13.5	5.5	5.0	7.0	6.5	0.5	0.5	4.0	3.5	5.0	3.5
30	13.5	12.0	5.5	5.0	6.5	5.5	1.5	0.5	---	---	5.5	5.0
31	12.0	12.0	---	---	5.5	4.5	1.0	1.0	---	---	5.0	5.0
MONTH	18.0	10.5	14.5	2.0	8.5	3.0	6.0	0.5	4.0	1.0	5.5	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	5.0	13.5	13.0	15.0	15.0	15.5	15.5	---	---	---	---
2	6.5	6.0	13.5	13.5	15.0	14.0	17.0	15.5	---	---	---	---
3	6.0	5.5	13.5	13.0	15.0	14.0	17.0	16.5	---	---	---	---
4	5.5	4.5	13.5	12.0	16.0	15.0	17.0	16.5	---	---	---	---
5	5.0	4.0	12.0	11.0	16.0	16.0	16.5	15.0	---	---	---	---
6	5.0	4.5	12.0	9.5	16.0	15.5	15.0	14.5	---	---	---	---
7	5.5	3.5	13.5	11.0	15.5	15.0	15.5	14.5	---	---	---	---
8	4.5	3.0	13.5	11.5	15.5	14.0	15.5	15.5	---	---	---	---
9	6.0	4.5	11.5	9.5	15.5	14.0	16.5	15.5	---	---	---	---
10	6.0	5.5	9.5	9.0	15.5	14.0	17.0	16.0	---	---	---	---
11	6.0	5.5	11.0	9.0	14.0	12.0	18.5	17.0	---	---	15.5	13.5
12	7.0	6.0	12.0	10.0	13.5	12.0	19.0	18.5	---	---	16.5	14.5
13	7.0	6.5	13.5	11.0	13.5	13.0	19.0	18.5	---	---	16.5	15.5
14	8.5	6.0	13.5	12.0	14.5	13.5	19.0	18.0	---	---	16.5	15.5
15	8.5	7.0	13.5	12.0	16.0	14.5	20.0	19.0	---	---	16.0	15.0
16	8.5	7.0	15.0	13.5	16.0	15.5	20.0	20.0	---	---	15.5	14.5
17	14.0	8.5	15.0	14.0	16.5	15.5	20.0	20.0	---	---	17.0	14.5
18	11.5	9.5	15.0	13.5	16.5	16.0	20.5	20.0	---	---	18.5	16.5
19	14.0	10.5	15.5	15.0	16.0	15.0	21.0	20.0	---	---	18.5	17.0
20	14.0	10.5	15.0	13.5	16.0	15.0	21.0	21.0	---	---	17.0	15.5
21	10.5	8.5	15.0	13.0	16.0	16.0	21.0	20.5	---	---	15.5	14.5
22	10.5	8.5	15.0	14.5	16.0	16.0	21.5	20.5	---	---	15.5	14.5
23	10.5	8.0	15.5	14.5	16.0	14.5	22.0	21.0	---	---	14.5	13.0
24	10.5	10.0	15.5	14.5	14.5	14.0	23.0	21.0	---	---	14.0	13.0
25	10.0	9.0	16.0	15.0	14.5	13.5	21.5	20.0	---	---	15.0	13.5
26	10.0	8.0	15.0	14.0	14.0	13.5	20.5	18.5	---	---	18.0	15.0
27	10.0	8.5	14.5	13.0	14.5	13.5	19.0	18.0	---	---	18.5	17.0
28	11.0	8.5	15.0	14.0	15.5	14.5	19.0	17.0	---	---	18.0	16.0
29	12.0	10.0	16.0	14.5	15.5	15.5	19.0	16.5	---	---	16.5	15.5
30	13.5	11.0	15.5	15.5	15.5	15.5	---	---	---	---	16.0	15.0
31	---	---	15.5	15.0	---	---	---	---	---	---	---	---
MONTH	14.0	3.0	16.0	9.0	16.5	12.0	23.0	14.5	---	---	---	---

01373500 FISHKILL CREEK AT BEACON, N.Y.

LOCATION.--Lat 41°30'40", long 73°56'55", Dutchess County, at former gaging station, at Bridge Street Bridge in Beacon, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--190 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, April 1969 to September 1972.
Water temperatures: October 1961 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 26.5°C July 24; minimum, freezing point on several days during winter period.

Period of record:
Water temperatures: Maximum, 27.0°C July 20, 1964, July 14, 1966, July 18, 1969, and July 1, 9, 1971; minimum, freezing point on many days during winter periods some years.

REMARKS.--Water temperature measurements are made at lat 41°31'01", long 73°56'17", at the Texaco Research Center, 0.8 mile upstream from former gaging station. No water temperature measurements made on weekends and holidays.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.
Water temperature records furnished by Texaco Incorporated.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
21...	1040	6.9	50	0	34	9.6	11	1.3	119	0	98
NOV.											
11...	1100	7.1	130	0	33	11	9.0	1.2	120	0	98
JAN.											
05...	1010	6.9	40	0	27	8.8	8.2	1.0	93	0	76
26...	0935	6.3	70	80	29	8.9	7.8	.9	94	0	77
FEB.											
23...	0900	7.0	80	20	29	9.4	8.1	1.0	99	0	81
MAR.											
22...	0935	6.0	70	0	23	7.3	6.4	.9	75	0	62
APR.											
20...	0920	4.2	50	0	26	8.0	8.2	.8	87	0	71
MAY											
17...	1025	4.9	20	0	28	7.7	6.6	.9	90	0	74
JUNE											
15...	1010	6.8	100	20	28	8.0	7.4	.8	94	0	77
JULY											
12...	0915	6.3	60	10	33	9.0	8.8	.8	115	0	94
AUG.											
09...	1030	5.6	50	0	38	11	10	1.1	126	0	103
SEP.											
07...	0925	5.4	20	0	43	11	15	1.4	140	0	115

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.										
21...	24	17	.1	.48	1.4	.013	.13	.86	.17	167
NOV.										
11...	24	15	.1	.94	1.8	.025	.16	.68	.060	164
JAN.										
05...	25	14	.1	.33	1.1	.010	.09	.75	.093	141
26...	25	14	.0	.24	1.1	.007	.09	.84	.057	142
FEB.										
23...	26	16	.0	.46	1.3	.012	.08	.84	.048	149
MAR.										
22...	22	11	.0	1.7	2.5	.008	.12	.74	.054	119
APR.										
20...	24	15	.1	.22	.90	.005	.00	.68	.12	132
MAY										
17...	20	11	.1	2.2	2.8	.005	.05	.63	.042	129
JUNE										
15...	22	13	.0	.74	1.6	.015	.14	.74	.046	137
JULY										
12...	23	13	.0	.32	1.3	.008	.20	.78	.072	155
AUG.										
09...	25	17	.1	.54	1.5	.012	.05	.92	.15	174
SEP.										
07...	29	24	.1	.33	1.4	.010	.10	.99	.16	203

01373500 FISHKILL CREEK AT BEACON, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
21...	12	120	27	294	7.8	5	.03	--	--	--
NOV.										
11...	6	130	29	295	7.8	16	.04	--	--	--
JAN.										
05...	20	100	27	248	7.2	9	.05	--	--	--
26...	10	110	32	247	7.6	2	.03	--	--	--
FEB.										
23...	8	110	30	261	7.6	4	.02	--	--	--
MAR.										
22...	22	87	26	209	7.3	7	.03	2	10	<.5
APR.										
20...	31	98	26	237	7.6	9	.03	--	--	--
MAY										
17...	16	100	28	224	7.6	9	.02	--	--	--
JUNE										
15...	23	100	26	240	7.6	9	.03	3	0	<.5
JULY										
12...	18	120	25	276	7.8	1	.02	--	--	--
AUG.										
09...	21	140	37	310	8.1	4	.04	--	--	--
SEP.										
07...	11	150	38	364	8.2	5	.03	2	0	<.5

CONTINUED NEXT PAGE

01373500 FISHKILL CREEK AT BEACON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	---	---	12.0	13.5	5.5	5.5	---	---	0.0	1.0	3.5	5.0
2	---	---	14.0	16.0	6.0	1.5	---	---	0.5	1.0	5.0	5.5
3	---	---	14.5	14.5	0.5	1.0	1.5	2.0	0.5	1.0	2.0	1.5
4	---	---	11.5	11.5	---	---	1.5	2.0	1.5	1.5	---	---
5	---	---	9.5	10.5	---	---	1.5	2.0	---	---	---	---
6	---	---	---	---	1.0	1.0	0.0	0.5	---	---	0.5	1.5
7	---	---	---	---	3.0	3.5	0.0	0.5	0.5	0.5	0.5	3.0
8	---	13.5	6.5	7.0	3.0	4.0	---	---	0.0	0.5	4.0	4.5
9	---	---	4.5	5.5	3.5	4.0	---	---	0.0	0.5	1.0	1.5
10	---	---	4.5	5.5	4.5	5.5	1.5	3.0	0.0	0.5	0.5	2.0
11	13.5	14.5	5.0	5.5	---	---	3.0	4.0	0.0	1.0	---	---
12	13.0	13.5	5.0	6.0	---	---	4.0	4.5	---	---	---	---
13	12.0	12.0	---	---	5.5	5.5	4.0	4.5	---	---	3.0	3.5
14	13.0	13.5	---	---	4.5	4.5	5.0	5.0	1.0	1.5	4.0	3.5
15	14.0	15.0	4.5	5.0	3.5	4.5	---	---	1.0	1.5	1.5	2.0
16	---	---	5.0	8.0	5.0	6.0	---	---	3.0	3.5	2.0	4.5
17	---	---	5.0	6.0	5.5	6.0	0.0	0.5	1.5	3.0	5.0	5.0
18	13.0	13.5	5.0	5.5	---	---	0.5	4.0	1.5	3.0	---	---
19	11.5	13.0	5.5	6.5	---	---	1.0	1.5	---	---	---	---
20	12.0	13.5	---	---	1.5	2.0	4.0	2.0	---	---	3.0	4.5
21	12.0	13.0	---	---	3.0	4.5	2.0	2.0	---	---	3.0	4.5
22	10.0	11.0	6.0	6.0	3.5	3.5	---	---	0.5	1.0	6.0	6.0
23	---	---	4.0	3.5	0.5	1.0	---	---	0.0	0.5	6.0	6.0
24	---	---	3.0	3.5	---	---	4.5	4.5	0.0	0.5	5.0	5.0
25	11.5	12.0	---	---	---	---	5.0	5.0	0.5	1.0	---	---
26	12.0	14.5	---	---	---	---	1.5	1.5	---	---	---	---
27	13.5	14.5	---	---	4.5	4.5	0.5	1.0	---	---	4.0	4.5
28	14.0	16.5	---	---	5.0	5.5	0.5	1.0	1.0	3.0	3.5	5.0
29	14.0	15.5	4.5	4.5	5.0	5.5	---	---	3.0	4.5	4.5	7.0
30	---	---	4.5	4.5	4.0	3.5	0.5	1.0	---	---	6.5	6.0
31	---	---	---	---	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	---	---	14.5	16.0	16.5	18.0	---	---	19.0	21.5	21.5	23.5
2	---	---	14.5	15.5	16.0	18.0	---	---	20.5	21.5	---	---
3	6.0	6.5	14.5	15.5	---	---	20.0	21.0	21.0	22.0	---	---
4	5.0	4.5	14.5	14.0	---	---	---	---	21.0	22.0	---	---
5	3.5	5.0	12.0	11.0	18.0	19.5	18.5	17.0	---	---	19.5	20.5
6	4.5	6.0	---	---	18.0	18.5	15.5	17.0	---	---	18.0	20.5
7	5.0	5.5	---	---	16.5	18.0	16.5	19.0	20.0	21.0	18.0	20.0
8	---	---	14.5	14.5	16.5	17.0	---	---	20.0	21.5	18.0	20.0
9	---	---	11.5	10.5	16.0	16.5	---	---	21.0	22.0	---	---
10	5.5	6.5	9.0	11.0	---	---	19.0	20.5	20.0	20.5	---	---
11	6.0	6.5	10.0	13.0	---	---	20.0	22.0	18.5	20.0	16.5	19.5
12	6.0	8.0	11.0	14.5	13.5	14.5	21.0	23.0	---	---	18.0	20.5
13	7.0	7.0	---	---	13.0	15.5	21.5	21.5	---	---	18.5	20.0
14	7.0	8.5	---	---	15.5	18.0	20.5	23.0	20.0	24.0	19.0	20.0
15	---	---	14.5	15.5	18.0	19.5	---	---	20.5	21.5	17.0	20.0
16	---	---	15.5	18.0	19.5	19.5	---	---	18.5	20.5	---	---
17	8.5	11.0	16.0	18.0	---	---	22.0	24.5	19.0	19.5	---	---
18	10.5	13.0	15.5	18.0	---	---	23.0	25.0	18.5	20.5	19.5	22.0
19	12.0	15.5	16.5	18.5	17.0	18.0	23.5	25.5	---	---	20.5	21.5
20	14.0	13.0	---	---	17.0	19.5	24.0	25.0	---	---	18.5	19.0
21	8.5	10.0	---	---	19.5	20.0	24.0	24.0	20.0	22.0	16.0	16.5
22	---	---	16.5	18.5	18.5	19.0	---	---	20.5	22.0	16.0	18.0
23	---	---	16.0	19.0	17.0	16.5	---	---	21.0	23.0	---	---
24	10.5	11.0	17.0	18.5	---	---	24.5	26.5	22.0	24.0	---	---
25	9.0	10.0	18.0	19.0	---	---	24.0	25.5	24.0	25.0	14.5	17.0
26	8.5	10.0	15.5	16.5	14.0	14.5	22.0	24.0	---	---	16.5	19.5
27	9.0	10.5	---	---	14.5	16.5	21.0	21.5	---	---	19.0	21.0
28	9.0	10.5	---	---	16.0	19.0	20.0	21.5	24.5	24.5	18.0	20.5
29	---	---	---	---	18.0	19.5	---	---	23.0	24.5	17.0	18.0
30	---	---	17.0	19.0	18.5	18.5	---	---	22.0	24.5	---	---
31	---	---	17.0	18.5	---	---	20.5	19.5	22.0	24.0	---	---

01373860 MOODNA CREEK NEAR NEW WINDSOR, N.Y.

LOCATION.--Lat 41°27'32", long 74°01'27", Orange County, at bridge on State Highway 9W, 0.6 mile upstream from mouth and 1.5 miles south of New Windsor.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 21...	1120	5.0	60	90	31	5.6	16	2.3	88	0	72
NOV. 10...	1120	6.4	120	50	29	5.9	15	2.0	79	0	65
JAN. 05...	1205	5.4	50	40	24	4.7	14	1.5	56	0	46
26...	1135	3.5	70	40	27	5.0	13	1.4	63	0	52
MAR. 22...	1150	3.8	190	0	21	3.7	12	1.2	46	0	38
APR. 26...	0840	2.4	60	0	22	4.3	10	1.1	54	0	44
MAY 17...	0905	2.6	40	0	25	4.5	13	1.0	66	0	54
JUNE 15...	0855	4.4	130	0	27	4.8	11	1.1	77	0	63
JULY 19...	0855	4.3	110	10	30	4.9	11	1.3	86	0	71
AUG. 16...	1100	4.3	60	70	37	6.2	16	1.8	106	0	87
SEP. 14...	0900	2.9	340	380	49	8.1	43	2.6	183	0	150

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT. 21...	28	26	.0	.98	2.0	.013	.71	.33	.15	161
NOV. 10...	29	24	.1	1.2	1.7	.015	.35	.22	.17	153
JAN. 05...	28	23	.1	1.0	1.7	.011	.14	.61	.078	132
26...	32	24	.1	.86	1.5	.066	.29	.32	.12	140
MAR. 22...	28	21	.0	.71	1.5	.012	.18	.64	.096	117
APR. 26...	26	18	.0	.61	1.3	.051	.35	.30	.14	113
MAY 17...	23	21	.1	2.6	3.2	.005	.05	.57	.12	128
JUNE 15...	21	17	.1	.51	.98	.031	.15	.29	.10	126
JULY 19...	20	18	.2	.75	1.9	.155	.27	.80	.19	137
AUG. 16...	20	27	.1	.81	1.3	.025	.35	.15	.11	167
SEP. 14...	61	38	.2	2.5	3.6	.021	1.0	.08	1.6	297

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 21...	30	100	28	283	7.3	28	.11	--	--	--
NOV. 10...	17	97	32	252	7.5	23	.07	--	--	--
JAN. 05...	46	79	33	231	6.9	13	.07	--	--	--
26...	14	88	36	245	7.0	16	.05	--	--	--
MAR. 22...	42	68	30	202	7.5	15	.04	--	--	--
APR. 26...	24	73	28	204	7.7	14	.04	--	--	--
MAY 17...	26	81	27	226	7.3	14	.04	--	--	--
JUNE 15...	40	87	24	229	7.3	12	.05	8	20	<.5
JULY 19...	17	95	25	244	7.7	19	.06	--	--	--
AUG. 16...	11	120	31	306	7.4	18	.05	--	--	--
SEP. 14...	20	160	6	506	7.5	73	.28	19	50	<.5

01374085 HUDSON RIVER AT BEAR MOUNTAIN, N.Y.

LOCATION.--Lat 41°18'51", long 73°59'08", Rockland County, at south dock of Bear Mountain State Park, at Bear Mountain, and 0.4 mile downstream from Bear Mountain Bridge.

PERIOD OF RECORD.--Chemical analyses, April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
21...	1050	3.0	80	20	23	4.9	9.6	1.8	66	0	54
NOV.											
10...	1040	3.5	50	0	30	23	160	7.4	66	0	54
JAN.											
05...	1115	5.4	280	30	27	5.2	8.8	1.7	75	0	62
26...	1050	5.8	100	0	26	5.3	8.7	1.4	73	0	60
MAR.											
22...	1105	4.9	280	0	21	3.9	8.8	1.5	57	0	47
APR.											
26...	0945	4.4	70	0	22	3.6	4.6	1.2	60	0	49
MAY											
17...	0825	4.5	60	0	15	2.8	4.1	.9	42	0	34
JUNE											
15...	0805	3.7	80	0	19	3.7	5.8	1.1	52	0	43
JULY											
19...	0945	4.7	90	0	19	3.5	5.0	.9	58	0	48
AUG.											
16...	1025	3.1	60	0	22	6.6	23	1.9	65	0	53
SEP.											
14...	1000	1.7	30	80	48	54	430	18	75	0	62

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.										
21...	23	16	.0	.60	1.5	.002	.23	.69	.090	118
NOV.										
10...	63	270	.1	.62	1.3	.005	.07	.60	.12	593
JAN.										
05...	26	13	.1	.44	1.1	.008	.00	.69	.11	128
26...	25	14	.0	.49	1.4	.010	.25	.67	.014	126
MAR.										
22...	25	14	.1	.70	1.7	.029	.31	.70	.11	112
APR.										
26...	18	8.5	.0	.48	1.1	.015	.05	.58	.19	95
MAY										
17...	16	5.6	.0	2.1	2.9	.003	.05	.75	.054	75
JUNE										
15...	17	9.0	.0	.71	1.4	.009	.11	.64	.078	89
JULY										
19...	17	6.9	.0	.41	1.2	.027	.20	.63	.076	89
AUG.										
16...	21	40	.1	.45	1.0	.001	.07	.57	.13	153
SEP.										
14...	130	790	.1	.49	1.2	.012	.12	.65	.10	1510

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
21...	13	78	23	212	7.3	10	.05	--	--	--
NOV.										
10...	15	170	120	1120	7.4	14	.07	--	--	--
JAN.										
05...	43	89	27	221	7.5	14	.05	--	--	--
26...	41	87	27	220	7.4	12	.05	8	20	<.5
MAR.										
22...	29	68	22	192	7.4	9	.03	--	--	--
APR.										
26...	30	70	21	164	7.9	7	.03	--	--	--
MAY										
17...	38	49	15	125	7.2	6	.02	--	--	--
JUNE										
15...	18	63	20	155	7.3	13	.04	5	0	<.5
JULY										
19...	18	62	14	154	7.4	1	.03	--	--	--
AUG.										
16...	19	82	29	297	7.6	9	.03	--	--	--
SEP.										
14...	13	340	280	2820	7.4	4	.12	10	0	<.5

01374350 HUDSON RIVER AT VERPLANCK, N.Y.

LOCATION.--Lat 41°15'23", long 73°57'29", Westchester County, at pier at end of 6th Street in Verplanck and across the river from Tomkins Cove.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
21...	1145	2.6	40	0	26	15	90	5.3	65	0	53
NOV.											
11...	1235	3.1	50	0	34	39	290	13	70	0	57
JAN.											
05...	1135	5.6	30	0	26	5.5	9.7	2.3	77	0	63
26...	1055	6.0	60	0	27	5.7	10	1.4	74	0	61
MAR.											
22...	1050	4.9	230	0	24	4.9	11	1.8	68	0	56
APR.											
20...	1025	4.9	40	0	25	5.1	7.8	1.4	72	0	59
MAY											
17...	1125	4.5	70	0	17	2.8	4.2	.9	42	0	34
JUNE											
15...	1120	3.6	80	0	19	3.7	5.4	1.2	51	0	42
JULY											
12...	1025	4.9	150	0	19	3.4	4.4	1.1	56	0	46
AUG.											
09...	1215	3.4	110	40	28	28	210	8.0	65	0	53
SEP.											
07...	1105	2.2	20	40	63	120	980	43	75	0	62

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
21...	44	160	.1	.45	1.2	.012	.06	.75	.15	379	20
NOV.											
11...	97	500	.1	.80	1.5	.024	.13	.63	.18	1020	30
JAN.											
05...	27	15	.1	.52	1.6	.039	.40	.73	.15	134	34
26...	27	16	.1	.52	1.5	.022	.32	.73	.11	134	26
MAR.											
22...	26	19	.1	1.0	2.3	.065	.55	.74	.25	130	150
APR.											
20...	21	13	.0	.35	1.2	.002	.01	.87	.12	118	39
MAY											
17...	16	6.0	.0	3.2	4.1	.010	.10	.79	.078	79	45
JUNE											
15...	17	8.0	.0	.84	1.7	.007	.19	.70	.096	87	38
JULY											
12...	16	6.0	.0	.74	1.3	.006	.06	.59	.16	86	66
AUG.											
09...	70	379	.1	.58	1.2	.012	.05	.56	.13	762	35
SEP.											
07...	260	1800	.3	.48	1.1	.031	.08	.57	.19	3310	33

CONTINUED NEXT PAGE

01374350 HUDSON RIVER AT VERPLANCK, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
21...	130	73	722	7.5	15	.07	--	--	--	--
NOV.										
11...	250	190	1860	7.3	19	.10	--	--	--	--
JAN.										
05...	88	24	233	7.0	18	.04	--	--	--	--
26...	91	30	235	7.5	10	.04	12	30	--	<.5
MAR.										
22...	80	24	227	7.8	25	.07	7	10	0	<.5
APR.										
20...	83	24	208	7.1	80	.04	--	--	--	--
MAY										
17...	54	20	128	7.2	8	.02	--	--	--	--
JUNE										
15...	63	21	152	7.2	12	.04	6	0	--	<.5
JULY										
12...	61	16	148	7.2	17	.03	--	--	--	--
AUG.										
09...	190	130	1460	7.6	17	.07	--	--	--	--
SEP.										
07...	650	590	6110	7.7	24	.18	5	0	0	<.5

01376269 HUDSON RIVER AT PIERMONT, N.Y.

LOCATION.--Lat 41°02'34", long 73°53'48", Rockland County, at end of pier in Piermont, 0.3 mile upstream from Sparkill Creek and 1.8 miles downstream from Tappan Zee Bridge.

PERIOD OF RECORD.--Chemical analyses: May 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
28...	1205	2.6	40	50	59	120	1100	45	74	0	61
NOV.											
23...	1145	3.1	50	30	94	180	1700	69	83	0	68
JAN.											
06...	0920	5.4	30	0	29	20	140	7.1	69	0	57
FEB.											
02...	1130	5.7	120	0	50	77	670	33	79	0	65
MAR.											
02...	1010	5.0	60	40	68	140	1200	46	80	0	66
30...	1005	5.2	90	0	33	45	320	15	65	4	60
APR.											
26...	1050	4.9	70	0	26	5.1	11	1.7	71	0	58
MAY											
31...	1210	3.5	20	0	40	50	480	19	56	0	46
JUNE											
21...	1000	2.7	60	30	28	28	210	9.4	52	0	43
JULY											
19...	1130	1.2	40	0	27	19	130	6.4	62	0	51
AUG.											
16...	1355	2.8	50	30	56	110	900	40	68	0	56

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
28...	240	1800	.4	.53	1.6	.020	.41	.66	.17	3410	9
NOV.											
23...	400	2900	.6	.76	1.9	.078	.51	.61	.40	5390	87
JAN.											
06...	57	230	.1	.38	1.4	.028	.43	.57	.19	527	34
FEB.											
02...	140	1300	.2	.57	2.0	.014	.79	.69	.13	2320	40
MAR.											
02...	330	2100	.3	.66	1.9	.067	.52	.69	.26	3930	32
30...	110	620	.1	1.0	2.1	.013	.56	.60	.14	1190	5
APR.											
26...	24	18	.1	.78	1.8	.112	.05	.89	.21	131	48
MAY											
31...	130	860	.1	.81	1.6	.012	.05	.74	.13	1610	69
JUNE											
21...	74	370	.2	.68	1.4	.006	.09	.69	.10	752	32
JULY											
19...	51	240	.1	.42	1.2	.045	.41	.37	.12	508	19
AUG.											
16...	230	1700	.3	.79	1.6	.019	.29	.55	.15	3080	26

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
28...	640	580	5540	7.3	10	.21	--	--	--	--
NOV.										
23...	980	910	9260	7.5	14	.35	3	60	--	<.5
JAN.										
06...	160	98	964	7.3	17	.07	--	--	--	--
FEB.										
02...	440	380	4110	7.6	21	.17	9	20	--	<.5
MAR.										
02...	750	680	6870	7.5	30	.08	--	--	--	--
30...	270	210	2250	7.3	16	.11	0	300	550	<.5
APR.										
26...	86	28	230	7.8	11	.04	--	--	--	--
MAY										
31...	310	260	3040	7.3	15	.07	--	--	--	--
JUNE										
21...	190	140	1450	7.3	14	.08	--	--	--	--
JULY										
19...	150	95	988	7.7	11	.06	2	0	--	<.5
AUG.										
16...	590	540	5760	7.6	22	.18	--	--	--	--

01376310 HUDSON RIVER AT YONKERS, N.Y.

LOCATION.--Lat 40°55'00", long 73°54'41", Westchester County, at south end of dock at the Westchester County Joint Sewage Treatment Plant at Yonkers-New York City line.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
28...	1010	2.4	30	50	104	260	2200	97	83	0	68
NOV.											
23...	1005	3.1	10	40	110	270	2200	91	88	0	72
JAN.											
06...	1045	5.0	20	20	58	110	920	40	76	0	62
FEB.											
02...	1005	4.2	60	40	124	330	2800	120	92	0	75
MAR.											
02...	1135	4.5	70	100	130	320	2700	110	97	0	80
30...	1135	5.6	180	120	190	190	1600	70	114	0	94
APR.											
20...	1150	5.3	30	20	26	9.0	50	3.3	67	0	55
MAY											
31...	1350	3.4	20	80	91	220	1900	74	67	0	55
JUNE											
21...	1130	7.7	380	240	73	70	540	22	124	0	102
JULY											
12...	1220	3.5	40	60	58	110	900	38	74	0	61
AUG.											
09...	1325	2.3	20	120	158	420	3400	130	95	0	78
SEP.											
07...	1015	1.9	10	120	--	520	4400	--	97	0	80

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.										
28...	500	3800	.6	.50	1.6	.028	.65	.50	.22	7010
NOV.										
23...	500	4100	.9	.66	2.2	.054	1.0	.45	.40	7320
JAN.										
06...	290	1600	.3	.42	1.3	.010	.63	.32	.26	3020
FEB.										
02...	730	5100	.6	.75	1.4	.019	.15	.53	.15	9260
MAR.										
02...	700	4800	.7	1.5	4.6	.270	2.1	.68	.52	8820
30...	420	2800	.7	2.4	10	.005	8.5	.00	.30	5350
APR.										
20...	32	88	.1	.66	2.5	.010	.40	1.4	.35	254
MAY										
31...	500	3200	.9	.53	1.9	.067	.55	.83	.12	6030
JUNE										
21...	170	980	.3	2.1	16	7.6	.35	6.8	2.0	1980
JULY										
12...	290	1600	.4	.45	1.6	.090	.15	.93	.22	3000
AUG.										
09...	850	6300	.9	.95	2.8	.120	1.3	.45	.53	11300
SEP.										
07...	1100	7900	.9	--	--	.011	.75	.34	.29	--

01376510 HUDSON RIVER AT YONKERS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 28...	9	1300	1300	11700	6.9	10	.35	--	--	--
NOV. 23...	20	1400	1300	12300	7.2	0	.47	8	90	<.5
JAN. 06...	36	600	540	5230	7.3	20	.18	--	--	--
FEB. 02...	45	1700	1600	14500	7.5	9	.42	7	30	<.5
MAR. 02...	31	1600	1600	15100	7.2	20	.44	--	--	--
30...	36	1300	1200	9083	6.8	34	.73	6	140	<.5
APR. 20...	51	100	47	470	7.1	11	.05	--	--	--
MAY 31...	33	1100	1100	10400	7.3	8	.20	--	--	--
JUNE 21...	51	470	370	3470	7.1	34	.38	--	--	--
JULY 12...	91	600	540	5450	7.3	19	.13	4	50	<.5
AUG. 09...	34	2100	2000	18500	7.1	12	.40	--	--	--
SEP. 07...	32	--	--	22900	7.5	--	.42	--	--	--

01376905 HACKENSACK RIVER NEAR ORANGEBURG, N.Y.

LOCATION.--Lat 41°02'39", long 73°59'18", Orange County, at bridge on Orangeburg Road (Veterans Memorial Drive), 300 ft east of Hunt Road and 2 miles west of Orangeburg.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
28...	1115	.2	80	80	31	6.0	21	3.3	88	0	72
NOV.											
23...	1110	3.6	40	30	36	7.0	21	3.1	100	0	82
JAN.											
05...	0835	3.4	10	0	35	6.8	26	2.7	94	0	77
MAR.											
02...	0920	2.5	80	30	34	6.5	39	2.3	84	0	69
30...	0930	2.6	50	0	32	6.7	27	2.1	79	0	65
APR.											
26...	1015	1.3	60	20	31	5.5	23	2.0	74	0	61
MAY											
31...	1135	1.3	20	0	32	5.7	21	2.0	82	0	67
JUNE											
21...	--	2.8	120	100	28	6.0	15	1.7	63	0	52
JULY											
19...	1035	3.2	50	0	27	4.7	13	2.1	74	0	61
AUG.											
16...	1145	3.4	50	60	30	5.3	18	2.4	93	0	76
SEP.											
14...	1100	2.7	140	80	33	5.7	19	3.9	100	0	82

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.										
28...	25	30	.1	.78	1.6	.032	.42	.42	.040	163
NOV.										
23...	27	32	.3	.58	1.7	.100	.45	.62	.060	184
JAN.										
05...	29	56	.1	.78	2.5	.037	.84	.90	.052	211
MAR.										
02...	30	66	.1	.30	1.7	.029	.58	.85	.054	227
30...	30	49	.1	.74	2.3	.237	.27	1.1	.052	195
APR.										
26...	29	39	.1	.72	2.1	.300	.25	.90	.068	173
MAY										
31...	25	37	.1	.61	1.5	.009	.14	.84	.051	169
JUNE										
21...	35	28	.2	.60	1.2	.010	.10	.51	.17	151
JULY										
19...	23	25	.1	.59	1.2	.025	.55	.10	.077	136
AUG.										
16...	21	30	.1	1.0	1.6	.005	.65	.00	.070	158
SEP.										
14...	29	32	1.0	1.1	2.7	.040	1.2	.41	.15	180

01376905 HACKENSACK RIVER NEAR ORANGEBURG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 28...	14	100	30	301	7.4	16	.06	--	--	--
NOV. 23...	12	120	37	356	7.4	7	.07	8	40	<.5
JAN. 05...	16	120	38	366	7.1	14	.08	--	--	--
MAR. 02...	32	110	43	427	7.3	18	.02	--	--	--
30...	14	110	43	363	7.4	9	.05	5	20	<.5
APR. 26...	26	100	39	318	7.5	17	.06	--	--	--
MAY 31...	17	100	36	320	7.5	3	.00	--	--	--
JUNE 21...	25	95	43	277	7.5	16	.04	--	--	--
JULY 19...	13	87	26	251	7.7	14	.02	5	0	<.5
AUG. 16...	14	97	20	291	7.5	20	.04	--	--	--
SEP. 14...	15	110	24	329	7.3	9	.06	--	--	--

01420500 BEAVER KILL AT COOKS FALLS, N.Y.

LOCATION.--Lat 41°56'47", long 74°58'48", Delaware County, at gaging station 125 ft downstream from highway bridge in Cooks Falls, and 5.5 miles downstream from Willowemoc Creek.

DRAINAGE AREA.--241 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 20...	1400	180	1.6	10	0	6.5	1.2	2.4	.6	16	0	13
NOV. 17...	1530	272	1.9	10	20	6.5	.9	1.4	.6	12	0	10
DEC. 22...	1415	682	2.2	10	0	5.2	.9	1.6	.5	10	0	8
JAN. 19...	1415	562	2.4	10	0	5.0	1.0	2.0	.4	10	0	8
FEB. 23...	1315	241	2.4	10	0	6.3	1.0	3.0	.7	12	0	10
MAR. 27...	1400	885	2.2	10	0	5.0	.9	1.6	.4	10	0	8
APR. 24...	1215	2340	2.0	20	0	4.6	1.0	1.1	.2	6	0	5
MAY 23...	1245	554	1.8	10	0	5.8	1.0	1.7	.6	9	0	7
JULY 20...	1230	295	1.9	40	0	6.0	.7	2.4	.4	13	0	11
AUG. 24...	1300	102	2.1	10	0	7.0	1.1	3.4	.6	18	0	15
SEP. 21...	1300	72	1.8	10	0	7.2	1.2	4.3	.6	18	2	18

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 20...	8.7	4.1	.0	.31	.70	.007	.21	.17	.010	34	6	21
NOV. 17...	9.0	3.0	.0	.52	.78	.003	.04	.22	.000	31	0	20
DEC. 22...	9.2	2.0	.0	.14	.74	.001	.19	.41	.005	29	2	17
JAN. 19...	8.8	3.1	.0	.28	.91	.002	.28	.35	.007	30	0	17
FEB. 23...	10	5.2	.0	.18	.61	.005	.07	.36	.007	36	3	20
MAR. 27...	9.8	3.2	.0	.15	.66	.006	.05	.46	.005	30	3	16
APR. 24...	8.5	2.0	.0	.20	.71	.002	.03	.48	.005	25	7	16
MAY 23...	9.7	2.8	.0	.26	.47	.003	.03	.18	.008	29	6	19
JULY 20...	9.5	3.5	.0	.26	.50	.009	.09	.15	.014	32	1	18
AUG. 24...	8.5	5.6	.0	.27	.59	.009	.04	.28	.034	39	4	22
SEP. 21...	9.3	7.4	.0	.24	.52	.010	.07	.20	.024	44	1	23

01420500 BEAVER KILL AT COOKS FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 20...	8	60	7.3	11.5	10.8	0	.02	--	--	--	--
NOV. 17...	10	56	7.1	4.5	12.2	2	.02	2	20	0	<.5
DEC. 22...	8	48	6.8	.5	9.4	4	.02	--	--	--	--
JAN. 19...	8	52	6.9	1.0	10.7	1	.01	--	--	--	--
FEB. 23...	10	64	7.2	.0	9.2	3	.01	--	--	--	--
MAR. 27...	8	49	7.3	1.0	9.9	0	.03	2	10	0	<.5
APR. 24...	11	41	6.7	5.5	9.9	6	.02	--	--	--	--
MAY 23...	11	51	7.2	15.0	8.1	2	.01	--	--	--	--
JULY 20...	7	56	7.3	23.0	9.2	2	.02	--	--	--	--
AUG. 24...	7	72	7.5	25.0	8.2	2	.02	--	--	--	--
SEP. 21...	5	79	9.0	15.0	10.8	0	.01	--	--	--	--

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.

LOCATION.--Lat 41°58'23", long 75°10'28", Delaware County, temperature recorder at gaging station on left bank 3,000 ft upstream from bridge on County Highway 28, at Fishs Eddy, 0.6 mile upstream from Fish Creek, 4.2 miles downstream from Beaver Kill and 11 miles upstream from the confluence of East and West Branches at Hancock.

DRAINAGE AREA.--783 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, May 1970 to September 1972.
Water temperatures: November 1967 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 29.0°C July 23; minimum, freezing point on many days during winter period.

Period of Record:
Water temperatures: Maximum, 31.0°C July 16-18, 1968; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
20...	1215	268	1.5	10	0	6.6	1.3	2.4	.6	19	0	16
NOV.												
17...	1145	830	2.1	10	0	6.0	1.4	1.4	.7	13	0	11
DEC.												
22...	1230	1140	2.4	10	0	5.8	1.0	1.2	.5	10	0	8
JAN.												
19...	1145	1070	2.5	20	0	5.7	1.2	1.8	.4	11	0	9
MAR.												
27...	1300	1370	2.6	10	0	5.8	1.1	1.4	.5	10	0	8
APR.												
24...	1040	6820	2.2	10	0	5.4	1.0	1.4	.5	9	0	7
MAY												
23...	1150	1000	1.5	10	0	5.7	1.1	1.8	.5	12	0	10
JULY												
20...	1100	320	2.0	30	0	6.5	1.1	2.1	.5	15	0	12
AUG.												
24...	1120	195	1.8	20	0	7.0	1.4	2.8	.6	19	0	16
SEP.												
21...	1130	132	1.3	20	0	8.0	1.4	2.8	.6	20	0	16

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.												
20...	9.5	3.2	.0	.30	.49	.006	.12	.06	.000	35	3	22
NOV.												
17...	9.3	2.5	.0	.10	.40	.003	.02	.28	.000	31	0	21
DEC.												
22...	9.8	2.5	.0	.16	.76	.003	.20	.40	.006	30	2	19
JAN.												
19...	9.3	2.8	.0	.24	.61	.001	.01	.35	.002	31	0	19
MAR.												
27...	10	2.4	.0	.10	.56	.005	.10	.36	.002	31	0	19
APR.												
24...	9.0	2.0	.0	.30	.80	.003	.05	.45	.014	28	6	18
MAY												
23...	9.8	2.5	.0	.20	.38	.003	.03	.15	.040	30	7	19
JULY												
20...	9.4	4.0	.0	.16	.47	.010	.15	.15	.012	34	1	21
AUG.												
24...	9.5	4.5	.0	.24	.47	.006	.04	.19	.016	38	4	23
SEP.												
21...	9.7	4.8	.0	.12	.33	.004	.07	.14	.007	39	0	26

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 20...	6	64	7.1	11.5	11.8	3	.01	--	--	--	--
NOV. 17...	10	58	7.1	3.5	12.4	4	.01	4	20	1	<.5
DEC. 22...	10	52	6.8	.5	11.7	2	.02	--	--	--	--
JAN. 19...	10	53	7.0	.5	11.4	2	.01	--	--	--	--
MAR. 27...	11	52	7.1	1.0	12.0	0	.01	2	10	0	<.5
APR. 24...	10	49	6.6	5.0	10.6	6	.03	--	--	--	--
MAY 23...	9	54	7.0	16.0	8.5	3	.00	--	--	--	--
JULY 20...	8	59	7.2	24.0	9.1	2	.01	--	--	--	--
AUG. 24...	8	72	7.3	24.5	8.4	1	.01	--	--	--	--
SEP. 21...	9	72	7.5	16.5	10.4	0	.00	--	--	--	--

CONTINUED NEXT PAGE

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY,. N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	15.0	---	---	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
2	20.5	17.0	18.5	15.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
3	18.5	16.0	16.5	12.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
4	16.5	13.5	12.0	9.5	0.5	0.0	1.0	0.0	0.0	0.0	0.5	0.0
5	16.0	13.0	10.5	8.0	0.0	0.0	1.5	0.0	0.0	0.0	0.5	0.0
6	14.5	11.5	9.5	7.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	11.5	9.0	10.5	5.5	3.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
8	11.5	8.0	5.5	4.0	4.0	3.0	0.0	0.0	0.0	0.0	1.5	0.0
9	10.5	9.0	4.5	2.0	4.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
10	11.0	10.0	5.0	4.0	6.0	4.5	1.0	0.0	0.0	0.0	0.0	0.0
11	11.5	10.5	5.0	4.5	6.5	5.5	2.0	0.5	0.0	0.0	0.0	0.0
12	11.5	9.0	6.0	4.0	5.5	4.0	3.0	1.0	0.0	0.0	0.0	0.0
13	12.0	9.5	7.0	5.5	4.5	4.0	3.5	1.5	0.0	0.0	2.0	0.0
14	15.0	11.5	6.0	4.0	4.0	2.0	3.0	0.0	0.0	0.0	2.0	0.0
15	16.0	13.5	5.0	4.0	4.5	3.0	0.0	0.0	0.0	0.0	1.5	0.0
16	15.5	13.5	6.5	5.0	5.5	4.5	0.0	0.0	0.0	0.0	4.0	0.5
17	15.5	14.0	7.0	5.0	4.5	4.0	0.0	0.0	0.0	0.0	3.5	1.0
18	14.5	12.0	7.0	5.0	4.0	0.5	1.0	0.0	0.0	0.0	2.0	1.0
19	14.0	10.5	7.0	5.5	0.5	0.0	1.5	0.5	0.0	0.0	4.0	0.5
20	13.0	11.5	7.0	5.5	2.0	0.5	0.5	0.0	0.0	0.0	3.5	0.0
21	14.0	10.5	6.0	4.5	4.0	2.0	1.5	0.5	0.0	0.0	5.0	1.5
22	13.0	10.0	---	---	4.0	0.5	1.0	0.5	0.0	0.0	4.5	1.5
23	15.0	11.5	---	---	0.5	0.0	3.5	1.0	0.0	0.0	2.0	1.0
24	14.0	11.5	---	---	2.0	0.0	3.5	2.0	0.0	0.0	1.5	1.0
25	13.0	12.0	---	---	2.0	1.0	4.5	1.0	0.0	0.0	2.0	0.0
26	13.0	11.5	---	---	2.0	1.0	1.0	0.5	0.0	0.0	3.5	0.0
27	13.5	13.0	---	---	3.5	1.0	0.5	0.0	0.0	0.0	3.0	0.0
28	16.0	13.0	---	---	4.5	3.5	0.0	0.0	0.0	0.0	4.5	0.0
29	---	---	---	---	3.5	2.0	0.5	0.0	0.0	0.0	7.0	1.5
30	---	---	1.5	1.0	2.0	0.5	0.5	0.0	---	---	6.0	3.5
31	---	---	---	---	1.0	0.0	0.0	0.0	---	---	6.5	3.5
MONTH	20.5	8.0	---	---	6.5	0.0	4.5	0.0	0.0	0.0	7.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	4.0	10.0	8.5	15.5	13.0	19.5	17.0	24.0	19.5	25.5	21.5
2	6.5	5.0	10.5	8.5	14.5	11.0	21.0	17.0	23.0	21.0	23.5	20.5
3	4.5	3.5	10.0	9.5	16.5	12.0	20.0	18.5	21.5	20.0	24.5	20.5
4	3.5	1.5	9.5	8.0	17.0	15.0	19.0	16.0	23.5	18.5	22.0	18.0
5	3.0	0.5	8.0	6.5	19.0	15.5	18.0	15.0	24.0	18.0	21.5	16.5
6	4.5	1.5	9.5	5.0	18.5	16.5	19.0	15.0	23.0	18.5	21.5	17.0
7	4.5	1.5	11.0	8.0	19.0	15.0	19.5	16.0	22.0	20.0	23.0	17.0
8	5.5	1.0	10.0	8.0	16.5	14.5	19.0	16.0	22.0	19.5	23.0	19.0
9	6.0	1.5	8.5	8.0	18.5	15.0	20.0	16.0	23.5	19.5	23.0	19.5
10	5.5	3.0	10.0	6.5	18.0	13.5	19.5	18.0	20.5	17.0	20.5	16.0
11	5.0	3.0	10.0	6.0	16.0	11.0	23.0	18.0	22.0	16.0	20.5	15.5
12	8.0	3.5	13.0	6.5	14.5	12.0	24.5	19.5	21.5	19.0	22.0	18.5
13	6.0	3.5	14.0	8.5	15.5	13.0	23.5	20.5	25.5	20.0	20.5	19.0
14	4.5	3.5	13.0	10.5	19.5	15.5	23.5	20.0	24.0	20.5	19.5	18.5
15	4.0	3.0	15.0	10.0	24.0	18.5	26.0	21.0	24.0	20.0	21.0	16.5
16	5.5	3.5	16.0	14.0	21.5	19.5	25.5	22.0	22.0	18.5	21.5	17.0
17	7.0	3.5	15.0	13.0	21.5	17.0	28.5	22.0	20.0	17.0	23.5	18.0
18	8.0	3.5	15.0	11.5	20.5	18.5	26.5	23.5	20.0	16.5	23.5	20.5
19	8.0	4.0	14.5	10.5	19.5	18.0	28.5	23.5	23.5	18.0	22.0	18.5
20	6.5	4.0	14.0	13.0	22.0	18.0	28.5	23.5	24.0	19.0	21.0	16.0
21	7.0	3.5	18.0	11.5	22.0	19.5	28.0	24.5	24.0	19.0	19.5	17.0
22	5.5	4.0	20.5	14.5	19.5	16.0	28.5	23.0	25.0	20.0	20.0	16.5
23	6.5	4.5	21.0	14.5	16.0	14.5	29.0	24.0	25.0	21.0	18.0	15.0
24	7.0	6.0	21.5	15.5	15.0	14.0	28.0	24.0	27.0	23.5	16.0	14.5
25	8.5	5.5	21.5	17.0	15.0	14.5	26.0	23.5	28.0	24.0	17.0	14.5
26	8.5	5.0	20.5	15.0	15.5	14.0	24.0	20.5	28.5	24.5	19.5	17.0
27	8.5	5.5	21.0	14.5	18.0	14.5	23.0	19.0	26.5	23.0	20.5	18.5
28	9.5	4.5	22.0	15.5	19.0	15.0	24.0	19.0	23.5	20.5	19.5	16.0
29	11.0	6.0	22.0	16.0	19.0	16.5	25.0	20.0	25.0	20.5	18.0	16.0
30	11.5	6.5	20.5	18.0	19.0	17.0	24.0	20.5	26.0	21.0	16.5	14.0
31	---	---	19.0	15.5	---	---	22.0	19.5	25.5	20.5	---	---
MONTH	11.5	0.5	22.0	5.0	24.0	11.0	29.0	15.0	28.5	16.0	25.5	14.0

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.

LOCATION.--Lat 42°04'29", long 75°23'47", Delaware County, temperature recorder at gaging station on right bank at Stilesville, 0.5 mile upstream from Cold Spring Creek, 1.4 miles downstream from Cannonsville Dam, and 2 miles northeast of Deposit.

DRAINAGE AREA.--456 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1962 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 25.0°C July 19; minimum, freezing point on many days during December to February.

Period of record:
Water temperatures: Maximum, 30.5°C July 2, 1963; minimum, freezing point on many days during winter periods.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	13.5	12.0	11.5	3.0	1.0	1.0	0.5	0.0	0.0	5.5	1.0
2	15.5	14.0	14.0	11.0	1.0	0.5	1.0	0.5	0.5	0.0	4.5	1.0
3	15.5	15.0	11.5	9.0	0.5	0.5	1.0	0.5	0.5	0.0	1.0	0.0
4	15.5	14.5	9.0	8.0	3.5	0.0	1.5	1.0	0.0	0.0	0.0	0.0
5	16.0	15.0	11.0	6.5	1.0	1.0	1.5	0.5	0.0	0.0	0.5	0.0
6	15.0	14.5	9.5	7.0	1.0	0.5	0.5	0.0	0.0	0.0	0.5	0.5
7	14.5	14.5	9.0	5.5	3.5	1.0	0.0	0.0	0.0	0.0	0.5	0.5
8	15.5	14.5	5.5	5.0	3.0	3.0	0.0	0.0	0.0	0.0	0.5	0.5
9	15.0	14.0	7.0	4.5	3.5	3.0	0.0	0.0	0.0	0.0	0.5	0.5
10	14.5	14.0	7.0	6.5	4.5	3.5	1.5	0.0	0.0	0.0	0.5	0.5
11	14.0	12.0	7.0	7.0	6.0	1.0	3.0	1.0	0.0	0.0	0.5	0.5
12	13.5	10.5	7.0	7.0	4.5	2.0	2.0	1.0	0.0	0.0	0.5	0.5
13	14.0	11.0	7.0	6.5	4.5	3.0	4.0	1.5	0.5	0.0	0.5	0.5
14	16.5	13.0	6.5	6.0	3.0	2.0	1.5	0.5	0.5	0.0	0.5	0.5
15	16.0	13.0	6.5	6.0	3.0	3.0	0.5	0.5	2.0	0.5	1.0	0.5
16	14.5	11.5	6.0	5.0	4.5	2.0	0.5	0.0	3.5	0.5	1.5	0.5
17	15.0	12.0	5.5	4.5	4.0	2.0	0.0	0.0	1.0	0.5	1.0	0.5
18	15.0	11.0	6.0	4.5	2.0	0.0	0.0	0.0	3.0	1.0	0.5	0.5
19	15.0	10.5	5.0	5.0	0.0	0.0	0.0	0.0	2.0	0.5	0.5	0.5
20	11.5	11.0	5.0	4.5	1.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
21	13.5	10.5	5.0	5.0	2.0	1.0	2.0	0.0	0.5	0.5	1.0	0.5
22	13.0	10.5	5.0	4.5	2.0	0.0	0.5	0.0	0.5	0.5	0.5	0.5
23	14.0	11.5	4.5	2.0	0.5	0.0	3.5	0.5	0.5	0.5	1.0	0.5
24	13.0	11.0	5.0	4.5	2.0	0.0	3.0	1.5	0.5	0.5	0.5	0.5
25	11.5	11.0	5.0	4.0	2.0	0.5	3.0	0.0	0.5	0.5	0.5	0.5
26	11.5	11.5	5.0	4.0	2.0	1.0	0.0	0.0	0.5	0.5	1.0	0.5
27	12.0	11.5	4.5	4.5	2.0	2.0	0.0	0.0	2.0	0.5	1.0	1.0
28	13.0	12.0	4.5	4.5	3.0	2.0	0.0	0.0	3.5	1.0	1.0	1.0
29	12.0	11.5	4.5	4.0	3.0	2.0	0.0	0.0	2.0	1.5	1.0	1.0
30	12.0	11.5	4.0	3.0	2.0	0.5	0.0	0.0	---	---	1.0	1.0
31	11.5	11.5	---	---	1.0	0.5	0.0	0.0	---	---	1.0	1.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.5	1.0	5.0	4.0	18.0	16.0	17.0	16.0	14.0	7.0	6.5	5.5
2	1.0	1.0	5.0	4.5	16.0	13.0	17.0	16.0	13.0	10.0	6.0	6.0
3	1.0	1.0	4.5	4.5	18.0	14.0	19.0	17.0	11.5	10.0	6.0	6.0
4	1.0	1.0	6.0	4.5	18.0	16.5	18.5	17.0	17.0	10.0	6.0	5.5
5	1.0	1.0	6.0	5.5	19.0	17.0	18.5	18.0	18.0	9.0	6.0	5.5
6	1.5	1.0	6.0	5.0	19.0	18.5	19.5	18.5	16.5	9.5	6.5	6.0
7	1.5	1.0	6.0	5.0	19.5	18.5	19.5	19.0	14.5	11.0	6.5	6.0
8	1.5	1.0	6.5	5.5	19.0	16.5	20.0	19.5	14.5	10.0	7.0	6.0
9	1.5	1.0	7.0	5.0	18.0	16.5	20.0	18.0	16.0	9.5	6.0	6.0
10	1.5	1.0	7.0	6.5	18.0	17.0	20.0	15.5	13.5	9.0	6.5	6.0
11	1.5	1.5	6.5	5.5	17.0	16.5	18.5	15.5	11.5	6.5	6.5	6.0
12	2.0	1.5	8.0	6.0	16.5	15.5	21.0	18.5	8.0	6.5	6.0	6.0
13	1.5	1.5	8.0	7.0	17.0	16.0	21.0	20.0	14.5	6.5	6.0	6.0
14	1.5	1.5	8.0	7.0	18.0	16.5	21.5	20.0	11.0	6.5	6.0	6.0
15	1.5	1.0	9.0	8.0	19.0	16.0	22.0	19.0	10.5	7.0	6.0	6.0
16	1.5	1.5	9.5	9.0	18.0	15.0	20.0	19.0	13.5	8.5	6.5	6.0
17	1.5	1.5	9.5	9.0	20.0	18.0	24.5	20.0	10.0	6.5	7.0	6.5
18	1.5	1.5	13.5	9.5	19.5	18.0	23.5	17.0	6.5	5.5	8.0	6.5
19	1.5	1.5	15.0	13.0	19.0	18.5	25.0	21.5	6.5	5.5	6.5	6.5
20	1.5	1.5	15.0	14.5	19.5	16.0	23.5	20.0	6.5	6.0	8.0	6.5
21	2.0	1.5	15.5	14.5	19.5	19.0	24.0	20.0	7.0	6.0	8.0	7.0
22	2.0	2.0	18.0	14.5	20.0	19.5	24.0	20.0	7.0	6.0	8.0	7.0
23	2.0	2.0	18.0	16.0	20.0	19.0	24.0	19.5	6.5	6.0	8.0	7.0
24	2.0	2.0	20.0	16.5	19.0	17.0	21.5	16.0	6.5	6.0	8.0	8.0
25	2.0	2.0	19.5	18.0	17.0	17.0	18.5	13.5	6.0	6.0	8.0	7.0
26	2.0	2.0	18.5	15.5	17.0	17.0	15.5	11.5	6.0	6.0	8.0	7.0
27	3.0	2.0	19.0	15.0	17.0	17.0	15.0	10.5	7.0	6.0	8.0	8.0
28	3.5	3.0	18.0	15.5	18.0	17.0	13.0	7.0	6.0	6.0	8.5	8.0
29	4.0	3.5	18.5	16.0	19.0	17.0	7.0	7.0	7.0	6.5	9.0	8.5
30	4.5	3.5	18.0	15.5	19.0	17.0	8.5	7.0	6.5	6.0	8.5	8.5
31	---	---	18.0	15.5	---	---	8.0	7.0	6.5	5.5	---	---

01425675 OQUAGA CREEK NEAR NORTH SANFORD, N.Y.

LOCATION.--Lat 42°10'28", long 75°26'25", Broome County, temperature recorder at gaging station on left bank 20 ft downstream from culvert on North Sanford Road, 0.2 mile upstream from outlet of Stilson Pond, 1.5 miles north of North Sanford, and 4.1 miles upstream from Dry Brook.

DRAINAGE AREA.--4.71 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 21.0°C July 23, 24; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 21.0°C June 30, July 1, 1971 and July 23, 24, 1972; minimum, freezing point on many days during winter periods.

REMARKS: No water temperature records Nov. 12 to Jan. 27, Mar. 30 to Apr. 12, Aug. 28 to Sept. 13.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JULY 11...	1100	4.0	4.1	360	0	6.4	1.9	2.1	.3	21	0
SEP. 14...	1015	.79	4.4	480	60	10	2.9	3.2	.8	41	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
JULY 11...	17	9.5	1.5	.1	.06	36	24	7	59	7.1	15.0
SEP. 14...	34	9.3	.8	.1	.20	53	37	3	94	7.5	14.0

01425675 OQUAGA CREEK NEAR NORTH SANFORD, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.0	10.0	9.0	---	---	---	---	0.0	0.0	0.0	0.0
2	13.5	12.0	11.5	10.0	---	---	---	---	0.0	0.0	0.0	0.0
3	13.5	13.0	11.5	9.5	---	---	---	---	0.0	0.0	0.0	0.0
4	13.5	13.5	9.5	8.0	---	---	---	---	0.0	0.0	0.0	0.0
5	13.5	13.0	8.0	6.5	---	---	---	---	0.0	0.0	0.0	0.0
6	13.0	11.0	7.0	6.5	---	---	---	---	0.0	0.0	0.0	0.0
7	11.0	10.0	7.0	6.5	---	---	---	---	0.0	0.0	0.0	0.0
8	10.0	9.5	6.5	6.0	---	---	---	---	0.0	0.0	0.0	0.0
9	9.5	9.0	6.0	6.0	---	---	---	---	0.0	0.0	0.0	0.0
10	10.0	9.5	6.0	6.0	---	---	---	---	0.0	0.0	0.0	0.0
11	10.0	10.0	6.0	6.0	---	---	---	---	0.0	0.0	0.0	0.0
12	10.0	9.0	---	---	---	---	---	---	0.0	0.0	0.0	0.0
13	9.0	8.5	---	---	---	---	---	---	0.0	0.0	0.0	0.0
14	10.0	9.0	---	---	---	---	---	---	0.0	0.0	0.0	0.0
15	10.0	9.5	---	---	---	---	---	---	0.0	0.0	0.0	0.0
16	10.0	9.5	---	---	---	---	---	---	0.0	0.0	0.0	0.0
17	10.0	9.5	---	---	---	---	---	---	0.0	0.0	0.0	0.0
18	9.5	9.0	---	---	---	---	---	---	0.0	0.0	0.0	0.0
19	9.0	8.0	---	---	---	---	---	---	0.0	0.0	0.0	0.0
20	9.0	8.5	---	---	---	---	---	---	0.0	0.0	0.0	0.0
21	9.0	9.0	---	---	---	---	---	---	0.0	0.0	0.5	0.0
22	9.0	8.5	---	---	---	---	---	---	0.0	0.0	0.5	0.0
23	10.0	9.0	---	---	---	---	---	---	0.0	0.0	0.0	0.0
24	10.0	10.0	---	---	---	---	---	---	0.0	0.0	0.0	0.0
25	10.0	10.0	---	---	---	---	---	---	0.0	0.0	0.0	0.0
26	10.5	10.0	---	---	---	---	---	---	0.0	0.0	0.5	0.0
27	10.5	10.5	---	---	---	---	---	---	0.0	0.0	0.0	0.0
28	11.0	10.5	---	---	---	---	0.0	0.0	0.0	0.0	0.5	0.0
29	11.0	10.0	---	---	---	---	0.0	0.0	0.0	0.0	---	---
30	10.0	9.0	---	---	---	---	0.0	0.0	---	---	---	---
31	9.5	9.0	---	---	---	---	0.0	0.0	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	9.5	8.0	14.5	13.0	14.5	13.0	16.5	14.5	---	---
2	---	---	9.0	8.5	13.5	11.5	15.0	12.0	16.5	15.5	---	---
3	---	---	9.5	9.5	14.0	11.0	15.0	13.5	16.0	16.0	---	---
4	---	---	9.5	8.5	14.0	13.0	14.0	13.0	16.5	16.0	---	---
5	---	---	8.5	7.0	15.0	13.0	13.5	12.0	16.5	13.5	---	---
6	---	---	9.0	6.5	14.5	14.0	14.0	12.0	15.5	13.5	---	---
7	---	---	10.0	8.5	14.5	13.0	14.5	13.5	16.5	15.5	---	---
8	---	---	9.5	9.0	14.0	12.0	14.5	13.5	16.5	15.5	---	---
9	---	---	9.0	8.5	13.5	13.0	14.5	13.5	16.0	15.5	---	---
10	---	---	10.5	8.0	13.5	12.0	14.5	14.5	16.5	14.5	---	---
11	---	---	9.5	8.0	12.0	10.0	16.5	14.5	15.0	13.0	---	---
12	---	---	12.0	8.0	11.5	11.0	18.0	16.0	15.5	14.5	---	---
13	1.5	1.5	14.0	9.0	12.0	11.0	18.5	18.0	17.0	15.0	---	---
14	3.0	1.5	12.0	11.0	14.0	13.5	18.5	18.0	17.0	15.5	14.0	14.0
15	3.0	2.0	14.0	11.0	16.5	14.0	19.0	17.0	17.0	15.5	14.0	13.5
16	3.5	3.0	14.0	11.5	16.5	15.5	19.0	19.0	16.0	13.0	14.0	12.0
17	6.0	3.5	13.5	11.5	15.5	14.0	20.0	19.0	14.0	14.0	15.0	13.0
18	7.0	4.5	16.0	11.5	15.0	14.0	20.0	18.5	15.0	14.0	15.5	15.0
19	6.5	5.5	15.5	13.0	14.5	14.5	20.0	19.0	15.5	14.0	15.5	14.0
20	6.5	5.0	15.0	13.5	16.0	14.5	20.5	19.5	15.5	13.5	14.0	12.0
21	7.0	4.5	16.0	13.5	16.0	15.5	20.5	19.5	15.5	13.0	13.0	11.5
22	5.5	5.0	16.5	14.0	15.5	14.5	20.5	19.5	16.0	13.5	12.0	11.0
23	6.0	5.5	16.5	13.0	14.5	12.0	21.0	20.0	16.5	14.5	11.0	9.0
24	5.5	5.5	16.0	13.5	12.0	11.5	21.0	20.0	18.0	16.5	10.0	10.0
25	6.5	5.5	15.5	13.5	11.5	11.5	20.0	18.5	18.5	17.0	12.0	10.0
26	6.5	4.5	14.5	13.0	11.5	11.5	19.0	18.0	18.5	17.0	13.0	11.5
27	6.5	4.5	15.0	13.0	13.0	11.0	18.0	15.5	18.0	18.0	13.0	12.0
28	8.5	5.0	15.5	13.0	14.5	11.5	16.0	14.0	---	---	12.0	11.0
29	9.5	6.0	15.5	13.5	14.5	13.0	16.0	14.0	---	---	10.5	10.5
30	9.5	6.0	15.5	14.5	13.5	13.0	15.5	14.0	---	---	11.0	9.5
31	---	---	15.5	14.5	---	---	15.5	14.5	---	---	---	---

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.

LOCATION.--Lat 42°00'11", long 75°23'02" (revised), Orange County, temperature recorder at gaging station at bridge on County Highway 56 in Hale Eddy, 9 miles upstream from confluence of East and West Branches at Hancock.

DRAINAGE AREA.--593 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, May 1970 to September 1972.
Water temperatures: October 1967 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 30.5°C July 22, 23.

Period of record:
Water temperatures: Maximum, 30.5°C July 22, 23, 1972.

REMARKS.--No water temperature record Nov. 3 to Mar. 28.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 20...	1030	32	.3	50	0	9.5	2.9	5.1	1.3	30	0	25
NOV. 17...	0945	86	2.2	20	0	8.1	2.6	4.2	1.4	20	0	16
DEC. 22...	1015	240	3.5	30	0	6.5	1.9	3.4	1.0	14	0	11
JAN. 19...	0950	220	3.8	40	0	6.9	2.0	3.6	.9	14	0	11
FEB. 23...	1030	140	3.1	40	0	7.6	2.3	4.5	1.1	19	0	16
MAR. 27...	1030	2380	3.4	50	0	7.3	1.6	3.2	1.3	16	0	13
APR. 24...	0915	4270	3.2	10	0	7.0	.8	3.2	1.2	15	0	12
MAY 23...	1000	1300	2.2	10	0	6.2	1.7	2.7	1.1	16	0	13
JULY 20...	0925	226	1.5	30	0	8.7	2.3	3.4	1.3	25	0	21
AUG. 24...	0945	1400	2.7	20	0	7.6	1.6	2.6	1.0	14	0	11
SEP. 21...	1000	1580	2.3	20	50	6.9	1.7	2.4	1.0	18	0	15

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 20...	12	7.5	.0	.28	.65	.005	.11	.26	.010	55	2	36
NOV. 17...	13	7.6	.0	.31	.91	.006	.12	.47	.010	52	2	31
DEC. 22...	12	5.7	.0	.22	1.0	.005	.20	.65	.010	44	3	24
JAN. 19...	12	5.2	.0	.28	.91	.002	.02	.60	.005	44	0	25
FEB. 23...	13	6.6	.0	.28	1.0	.005	.08	.72	.010	51	3	28
MAR. 27...	12	4.6	.0	.40	1.4	.030	.14	.87	.11	46	25	25
APR. 24...	11	5.1	.0	.26	1.2	.015	.07	.86	.057	43	9	21
MAY 23...	12	3.5	.0	.62	1.3	.005	.12	.65	.040	41	12	22
JULY 20...	12	5.5	.0	.41	1.4	.051	.35	.60	.037	51	2	31
AUG. 24...	10	4.1	.0	.23	.98	.002	.00	.75	.034	40	6	26
SEP. 21...	10	3.6	.1	.34	1.1	.007	.07	.70	.038	40	1	24

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 20...	11	107	7.1	12.5	12.2	4	.02	--	--	--	--
NOV. 17...	15	92	7.2	5.0	12.8	9	.02	2	20	2	<.5
DEC. 22...	13	76	6.9	1.0	11.7	4	.03	--	--	--	--
JAN. 19...	14	76	6.8	.0	12.6	0	.01	--	--	--	--
FEB. 23...	13	91	6.9	.0	12.4	4	.02	--	--	--	--
MAR. 27...	12	76	7.3	.0	12.1	7	.03	5	0	3	<.5
APR. 24...	8	76	6.9	4.5	10.4	4	.02	--	--	--	--
MAY 23...	9	70	6.7	11.0	8.0	6	.01	--	--	--	--
JULY 20...	11	91	7.0	23.0	10.2	6	.03	--	--	--	--
AUG. 24...	14	69	7.1	6.0	11.4	2	.05	--	--	--	--
SEP. 21...	9	69	7.2	7.0	11.0	0	.02	--	--	--	--

CONTINUED NEXT PAGE

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	16.0	16.0	13.5	---	---	---	---	---	---	---	---
2	24.5	18.0	18.5	15.0	---	---	---	---	---	---	---	---
3	19.5	16.5	---	---	---	---	---	---	---	---	---	---
4	18.0	15.5	---	---	---	---	---	---	---	---	---	---
5	19.0	15.5	---	---	---	---	---	---	---	---	---	---
6	17.0	15.5	---	---	---	---	---	---	---	---	---	---
7	15.5	14.5	---	---	---	---	---	---	---	---	---	---
8	18.5	14.0	---	---	---	---	---	---	---	---	---	---
9	16.0	13.5	---	---	---	---	---	---	---	---	---	---
10	16.0	15.0	---	---	---	---	---	---	---	---	---	---
11	15.0	13.0	---	---	---	---	---	---	---	---	---	---
12	14.5	10.0	---	---	---	---	---	---	---	---	---	---
13	15.0	10.0	---	---	---	---	---	---	---	---	---	---
14	18.0	12.0	---	---	---	---	---	---	---	---	---	---
15	19.0	14.0	---	---	---	---	---	---	---	---	---	---
16	17.0	13.5	---	---	---	---	---	---	---	---	---	---
17	18.5	14.0	---	---	---	---	---	---	---	---	---	---
18	18.0	12.0	---	---	---	---	---	---	---	---	---	---
19	18.0	11.5	---	---	---	---	---	---	---	---	---	---
20	15.0	13.0	---	---	---	---	---	---	---	---	---	---
21	17.0	11.5	---	---	---	---	---	---	---	---	---	---
22	15.5	11.5	---	---	---	---	---	---	---	---	---	---
23	18.5	14.0	---	---	---	---	---	---	---	---	---	---
24	16.5	13.5	---	---	---	---	---	---	---	---	---	---
25	14.0	13.0	---	---	---	---	---	---	---	---	---	---
26	14.5	14.0	---	---	---	---	---	---	---	---	---	---
27	15.5	14.0	---	---	---	---	---	---	---	---	---	---
28	17.0	14.0	---	---	---	---	---	---	---	---	---	---
29	16.0	13.0	---	---	---	---	---	---	---	---	5.0	1.0
30	15.5	13.0	---	---	---	---	---	---	---	---	3.0	1.5
31	14.0	13.5	---	---	---	---	---	---	---	---	5.0	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	1.5	8.5	5.0	18.0	15.0	18.5	16.5	20.0	9.0	11.0	6.5
2	3.5	1.5	9.0	6.0	17.0	14.0	19.5	16.0	21.0	17.0	10.0	6.5
3	3.5	1.5	8.5	6.0	19.5	13.0	19.5	16.5	20.0	18.0	10.0	7.0
4	2.0	1.0	8.5	7.0	20.0	16.0	19.5	16.5	24.5	17.0	9.5	6.5
5	3.5	0.5	8.0	6.5	21.0	16.5	18.5	16.5	25.5	16.0	10.0	6.5
6	3.5	0.5	8.0	5.5	20.5	18.0	20.0	17.0	25.0	18.0	10.5	6.5
7	4.5	0.5	9.0	5.5	21.0	17.0	20.5	18.0	24.0	19.0	10.5	6.5
8	5.0	0.5	8.5	6.0	19.5	16.5	21.0	18.0	23.5	19.0	10.0	7.0
9	5.5	0.5	9.0	8.0	19.5	15.5	21.5	18.0	24.5	19.0	10.0	7.0
10	4.5	1.0	10.0	8.0	18.0	15.0	21.0	16.5	21.5	16.0	10.5	6.5
11	4.5	1.5	9.0	5.5	16.0	13.5	21.5	15.0	18.0	11.5	10.5	7.0
12	6.5	1.5	9.0	5.5	19.0	14.0	24.5	18.5	12.0	7.0	10.0	7.0
13	3.5	2.0	11.0	7.0	18.0	14.5	23.5	19.5	20.0	8.5	8.5	7.0
14	3.5	2.0	9.5	8.5	20.5	15.5	23.0	19.0	18.0	13.0	9.0	8.0
15	3.0	2.0	12.0	8.5	24.0	18.0	26.0	19.0	15.0	8.5	10.5	7.0
16	4.0	3.0	13.5	9.5	22.0	18.5	24.0	19.5	19.5	11.5	10.5	7.0
17	5.5	3.0	12.0	9.5	21.5	16.5	28.0	20.0	18.0	10.5	12.0	8.0
18	5.5	3.0	14.5	10.0	20.5	17.0	25.5	22.0	10.5	7.0	11.5	8.5
19	5.0	3.5	16.0	13.0	19.5	18.0	29.5	22.0	11.0	6.0	9.5	8.5
20	4.0	3.0	15.5	15.0	23.0	18.5	28.5	24.0	12.0	6.0	11.5	8.0
21	5.0	2.0	19.0	14.5	20.5	19.0	29.0	23.5	11.5	6.5	9.5	8.0
22	3.5	3.0	20.0	14.5	19.5	19.0	30.5	23.5	11.5	6.0	11.0	8.0
23	4.5	3.5	21.0	15.5	19.0	16.0	30.5	24.5	10.5	6.0	10.5	8.0
24	4.0	3.5	22.0	16.0	17.0	16.0	29.5	24.5	9.5	6.0	9.0	8.5
25	5.5	3.5	23.0	18.0	16.5	15.5	29.0	23.5	10.0	6.5	10.0	9.0
26	6.0	3.0	21.0	15.0	17.0	15.5	24.0	20.5	10.0	7.0	10.5	9.0
27	6.0	3.0	21.0	14.0	18.5	15.5	23.5	18.5	10.0	7.0	10.5	9.0
28	7.0	3.0	22.0	15.0	19.5	16.0	20.5	8.0	10.0	7.0	11.5	9.0
29	8.5	3.5	22.0	15.0	19.5	16.5	11.5	6.0	11.0	7.0	10.5	9.0
30	9.0	4.0	19.5	15.5	18.5	17.0	15.0	6.0	11.0	7.0	10.5	9.0
31	---	---	19.5	16.5	---	---	12.0	9.5	11.0	6.5	---	---

01427405 DELAWARE RIVER NEAR CALLICOON, N.Y.

LOCATION.--Lat 41°46'14", long 75°05'03", Sullivan County, temperature recorder at gaging station 500 ft downstream from Hollister Creek, 1.3 miles northwest of Callicoon and 1.4 miles upstream from Callicoon Creek.

DRAINAGE AREA.--1,706 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 31.5°C July 23; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 31.5°C July 23, 1972; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	14.5	14.5	13.0	1.0	0.0	1.0	0.5	0.5	0.0	1.0	0.0
2	20.5	16.5	17.0	14.0	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.0
3	19.5	18.5	15.5	12.0	0.5	0.0	1.0	0.5	0.0	0.0	0.0	0.0
4	18.5	16.0	12.0	9.5	0.5	0.0	1.0	0.5	0.0	0.0	0.0	0.0
5	19.0	15.5	11.0	8.0	0.0	0.0	1.5	0.5	0.0	0.0	0.5	0.0
6	17.0	15.0	9.5	6.5	0.0	0.0	1.0	0.5	0.0	0.0	0.0	0.0
7	15.0	12.0	9.0	5.5	0.5	0.0	1.0	0.5	0.0	0.0	0.5	0.0
8	15.0	11.0	6.5	4.0	3.0	0.5	1.0	0.5	0.0	0.0	1.5	0.0
9	13.5	11.0	5.0	1.5	3.5	3.0	0.5	0.5	0.5	0.0	0.5	0.0
10	13.5	12.0	4.0	3.0	4.0	3.5	1.5	0.5	0.5	0.0	1.0	0.0
11	14.0	11.0	4.5	3.0	5.0	4.0	1.5	0.5	0.5	0.0	0.5	0.0
12	13.5	10.5	6.5	3.5	4.0	3.5	2.0	0.5	0.5	0.0	0.0	0.0
13	13.0	10.0	8.0	5.0	4.0	3.5	2.0	0.5	0.0	0.0	2.0	0.0
14	15.5	11.0	8.0	5.0	3.5	2.0	1.5	0.5	0.0	0.0	0.5	0.0
15	16.5	13.0	5.5	5.0	3.0	2.0	0.5	0.5	0.0	0.0	1.5	0.0
16	16.5	13.0	6.5	5.0	4.0	3.0	0.5	0.0	0.5	0.0	4.0	0.0
17	16.5	13.5	8.0	4.5	5.0	4.0	0.5	0.0	0.5	0.0	2.0	1.0
18	16.5	12.0	7.0	4.5	4.0	1.0	0.5	0.0	0.0	0.0	2.0	1.0
19	16.0	11.0	6.5	5.0	1.5	0.0	0.5	0.0	0.0	0.0	3.0	1.0
20	13.5	13.0	6.5	5.0	1.5	1.0	0.0	0.0	0.0	0.0	3.0	1.0
21	16.0	11.5	5.5	4.5	3.0	1.5	1.0	0.0	0.0	0.0	4.5	1.5
22	15.0	11.5	4.5	3.0	2.0	0.5	0.0	0.0	0.5	0.0	4.0	2.0
23	16.5	13.5	3.0	0.0	1.0	0.5	1.0	0.0	0.5	0.0	2.0	1.5
24	15.0	13.0	0.0	0.0	1.5	0.5	1.0	0.0	0.5	0.0	1.5	1.0
25	14.5	13.5	0.0	0.0	1.5	0.5	1.5	0.0	0.5	0.0	2.0	0.5
26	15.5	14.5	0.0	0.0	1.5	0.5	0.5	0.0	0.0	0.0	3.0	1.0
27	15.5	14.5	0.0	0.0	2.0	1.5	0.5	0.0	0.5	0.0	2.0	1.0
28	18.0	14.5	1.0	0.0	4.5	2.0	0.0	0.0	0.5	0.0	4.0	1.0
29	18.5	14.0	1.0	0.0	4.5	3.0	0.5	0.0	0.5	0.0	5.5	2.0
30	16.0	13.5	1.5	0.0	3.0	1.5	0.5	0.0	---	---	4.5	3.5
31	14.0	13.0	---	---	1.5	0.5	0.5	0.0	---	---	5.0	3.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	4.0	11.5	10.0	18.5	15.0	18.0	16.0	24.0	18.0	18.5	15.5
2	5.5	4.5	11.0	10.0	16.0	14.0	19.0	17.0	24.0	20.5	16.5	14.5
3	4.5	3.5	11.0	10.5	16.5	14.0	19.5	18.5	22.0	20.5	18.0	13.5
4	3.5	1.5	10.5	9.5	19.0	16.5	19.0	18.0	25.5	20.0	17.0	14.5
5	3.5	1.0	9.5	8.0	19.5	17.0	18.5	16.0	25.5	19.0	16.5	13.0
6	4.0	2.0	9.0	7.0	20.0	18.5	18.0	15.5	25.0	19.0	16.0	12.0
7	4.0	2.0	10.5	9.0	20.0	18.0	20.0	17.0	23.0	21.0	16.5	12.0
8	5.5	2.0	10.0	9.0	19.5	17.0	20.0	18.0	25.5	20.5	16.5	13.0
9	6.0	2.0	9.0	8.5	20.0	17.0	20.5	17.0	25.5	21.0	17.0	14.0
10	6.0	3.0	10.0	8.5	19.0	15.5	20.5	19.0	23.0	18.5	15.5	13.0
11	6.0	3.5	10.0	8.5	18.0	14.0	23.5	19.0	24.5	17.0	15.0	11.0
12	7.0	3.5	11.0	9.0	16.5	14.5	25.0	20.5	23.0	19.0	15.5	12.0
13	5.0	4.0	12.0	9.5	17.0	15.0	25.0	21.5	25.0	20.0	14.0	12.0
14	4.5	3.5	11.5	11.0	19.5	16.0	25.5	21.5	25.0	20.5	13.0	11.5
15	4.0	3.5	13.0	11.0	23.0	18.0	26.5	22.0	24.5	20.5	14.5	11.0
16	5.0	3.5	15.0	13.0	21.0	20.0	28.0	23.5	23.5	19.5	16.0	11.5
17	6.0	4.5	15.5	14.0	23.5	19.5	29.5	24.0	21.5	19.0	16.5	12.0
18	6.5	5.0	15.5	13.5	21.0	19.5	29.0	24.5	22.0	18.5	16.5	14.0
19	7.0	6.0	17.0	14.5	19.5	19.0	30.5	25.0	23.0	19.0	15.5	14.5
20	7.0	5.0	16.0	15.0	23.0	18.5	30.5	25.5	21.5	17.0	16.0	12.0
21	5.5	4.0	18.0	15.0	20.5	20.0	30.5	26.0	22.0	17.0	15.0	13.0
22	5.5	4.0	19.5	16.5	20.0	17.0	31.0	25.5	21.5	18.0	15.0	12.0
23	5.0	4.0	22.0	16.5	17.0	14.0	31.5	26.0	22.0	18.0	14.5	11.5
24	6.0	5.0	23.0	18.0	14.5	14.0	31.0	26.0	20.0	18.5	13.0	11.0
25	6.5	5.0	22.0	19.0	15.0	14.0	29.0	25.0	19.5	16.5	14.0	11.0
26	6.5	5.0	21.5	17.0	15.0	14.5	26.5	23.0	18.5	15.0	15.0	13.0
27	7.0	6.0	22.0	16.5	16.5	15.0	25.5	21.0	17.0	15.5	15.0	14.0
28	8.0	5.5	23.5	17.0	18.5	16.5	26.0	20.0	17.0	15.5	15.5	13.0
29	10.0	7.0	24.0	18.0	18.5	18.0	26.0	20.0	20.0	16.0	14.0	13.0
30	11.0	8.5	22.0	19.0	18.0	16.5	22.0	18.5	20.5	16.5	13.0	12.0
31	---	---	20.5	18.0	---	---	20.0	18.5	20.0	16.0	---	---

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, N.Y.

LOCATION.--Lat 41°30'30", long 74°59'15", Sullivan County, temperature recorder at gaging station 1.6 miles upstream from Lackawaxen River and 4.6 miles northwest of Barryville.

DRAINAGE AREA.--2,023 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 30.5°C July 22, 23.

Period of record:
Water temperatures: Maximum, 30.5°C July 22, 23, 1972.

REMARKS.--No water temperature records available for Nov. 2 to Mar. 28. Clock stopped July 4-11, range in temperature 17.0°C to 22.0°C.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAR. 29...	1100	4580	2.9	110	60	6.6	1.5	2.6	.8	12	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
MAR. 29...	10	10	4.1	.0	.60	23	13	67	6.7	4.0

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, N.Y.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	17.0	15.0	14.5	---	---	---	---	---	---	---	---
2	20.0	19.0	---	---	---	---	---	---	---	---	---	---
3	21.0	20.0	---	---	---	---	---	---	---	---	---	---
4	20.5	20.0	---	---	---	---	---	---	---	---	---	---
5	22.0	20.0	---	---	---	---	---	---	---	---	---	---
6	21.0	20.0	---	---	---	---	---	---	---	---	---	---
7	20.0	17.0	---	---	---	---	---	---	---	---	---	---
8	18.5	15.5	---	---	---	---	---	---	---	---	---	---
9	16.5	15.5	---	---	---	---	---	---	---	---	---	---
10	16.0	15.5	---	---	---	---	---	---	---	---	---	---
11	16.5	15.0	---	---	---	---	---	---	---	---	---	---
12	16.0	14.5	---	---	---	---	---	---	---	---	---	---
13	15.0	14.0	---	---	---	---	---	---	---	---	---	---
14	16.5	14.5	---	---	---	---	---	---	---	---	---	---
15	18.0	15.5	---	---	---	---	---	---	---	---	---	---
16	18.0	16.0	---	---	---	---	---	---	---	---	---	---
17	18.0	17.0	---	---	---	---	---	---	---	---	---	---
18	18.0	16.0	---	---	---	---	---	---	---	---	---	---
19	16.5	15.5	---	---	---	---	---	---	---	---	---	---
20	16.0	15.5	---	---	---	---	---	---	---	---	---	---
21	16.5	15.0	---	---	---	---	---	---	---	---	---	---
22	16.0	15.0	---	---	---	---	---	---	---	---	---	---
23	16.5	15.0	---	---	---	---	---	---	---	---	---	---
24	16.0	15.0	---	---	---	---	---	---	---	---	---	---
25	15.0	15.0	---	---	---	---	---	---	---	---	---	---
26	16.0	15.0	---	---	---	---	---	---	---	---	---	---
27	16.0	15.5	---	---	---	---	---	---	---	---	---	---
28	17.0	15.5	---	---	---	---	---	---	---	---	---	---
29	18.0	15.5	---	---	---	---	---	---	---	---	4.5	2.0
30	17.0	15.0	---	---	---	---	---	---	---	---	5.0	4.5
31	16.0	14.5	---	---	---	---	---	---	---	---	4.5	3.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	4.0	11.0	10.0	18.0	16.0	18.5	17.0	23.5	20.0	20.5	19.0
2	5.5	5.0	11.0	10.5	16.0	15.0	19.5	18.0	23.5	21.5	19.5	18.0
3	5.0	3.5	11.0	10.5	16.0	14.5	20.0	19.0	23.5	21.5	19.0	16.0
4	3.5	3.0	11.0	10.0	18.0	16.0	20.0	19.0	24.5	21.0	18.5	16.5
5	3.0	1.5	10.0	8.5	18.5	17.0	---	---	23.5	20.0	18.5	15.5
6	3.0	2.0	9.0	7.0	19.0	18.5	---	---	23.0	20.5	18.0	15.0
7	3.0	2.0	10.5	8.5	20.0	18.5	---	---	22.0	21.5	18.0	15.0
8	4.0	2.0	10.0	9.5	19.0	18.0	---	---	23.5	21.0	18.0	15.5
9	4.5	3.0	9.5	8.5	19.5	18.5	---	---	23.5	21.0	18.0	16.0
10	4.5	3.5	9.5	8.5	19.0	16.5	---	---	22.0	20.0	17.0	15.0
11	5.5	4.0	10.5	9.0	17.0	15.5	---	---	22.0	18.5	16.5	14.5
12	5.5	4.5	11.0	9.0	16.0	15.0	24.5	23.0	22.0	20.5	16.5	14.5
13	5.5	4.5	12.0	10.5	16.5	15.0	25.0	23.5	23.5	20.5	15.5	14.5
14	4.5	3.5	12.0	11.5	19.0	16.0	26.0	23.0	24.5	21.5	15.0	13.5
15	4.0	3.5	13.0	11.0	21.5	18.5	27.0	24.0	24.0	21.5	15.0	13.0
16	4.5	3.5	15.5	13.0	20.5	20.0	28.0	25.0	23.0	20.5	16.0	13.5
17	5.5	4.5	15.5	14.5	22.0	20.0	28.0	24.5	21.0	19.5	17.0	14.5
18	6.0	5.5	16.0	15.0	21.5	20.5	28.5	25.5	21.5	19.0	17.0	16.0
19	6.5	5.5	17.0	15.0	20.5	19.5	29.5	26.0	23.0	20.5	17.0	16.0
20	6.5	5.0	17.0	16.0	21.5	19.0	29.0	26.0	23.5	20.0	16.0	15.0
21	5.0	4.5	18.0	16.0	21.0	20.5	29.5	26.0	22.0	19.5	15.5	14.5
22	5.0	3.5	18.5	17.0	20.5	19.0	30.5	26.5	23.0	19.5	15.5	13.5
23	5.0	3.5	20.5	18.5	19.0	15.0	30.5	27.0	23.0	20.5	15.0	13.0
24	5.5	4.5	21.5	19.0	15.0	14.5	30.0	27.0	23.5	21.0	13.5	13.0
25	6.0	4.5	22.0	20.5	15.0	14.5	27.0	26.0	22.0	20.5	14.0	12.0
26	6.5	5.0	21.5	19.0	15.5	15.0	26.0	24.0	20.5	19.0	15.5	13.5
27	7.0	5.5	21.5	18.5	17.0	15.0	24.5	22.0	19.0	18.0	15.5	15.0
28	8.0	5.5	23.0	18.5	18.5	16.5	24.5	21.5	19.0	16.5	16.0	14.5
29	9.5	6.5	23.0	19.5	19.0	18.0	25.5	21.5	19.0	16.5	15.5	14.5
30	10.5	8.5	21.5	20.0	19.0	18.0	24.0	21.5	21.0	18.0	14.5	13.0
31	---	---	21.0	18.0	---	---	23.5	20.5	21.0	18.5	---	---

01432160 DELAWARE RIVER AT BARRYVILLE, N.Y.

LOCATION.--Lat 41°28'31", long 74°54'46", Sullivan County, temperature recorder at Shohola-Barryville Bridge at Barryville, just upstream from Halfway Brook and 1,000 ft upstream of Shohola Brook.

DRAINAGE AREA.--2,692 sq mi.

PERIOD OF RECORD.--Chemical quality: October 1957 to September 1958.
Water temperatures: October 1967 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 30.0°C July 23; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 30.0°C July 23, 1972; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	18.5	14.0	13.0	1.0	0.5	1.0	0.5	0.5	0.5	3.0	0.5
2	19.5	18.5	15.5	14.0	0.5	0.0	1.0	0.5	0.5	0.5	2.0	1.0
3	20.0	18.5	15.0	13.5	0.0	0.0	1.5	0.5	0.5	0.5	1.0	0.0
4	18.5	16.5	13.5	11.0	1.0	0.0	2.0	1.0	0.5	0.5	0.0	0.0
5	20.0	17.0	11.0	10.0	0.5	0.5	3.0	1.0	0.5	0.0	0.5	0.0
6	18.5	16.5	10.5	10.0	1.0	0.5	1.0	1.0	0.5	0.0	0.5	0.0
7	16.5	14.5	10.5	8.5	1.5	1.0	1.5	1.0	0.5	0.0	1.5	0.0
8	14.5	13.0	8.5	6.0	3.0	1.5	1.5	1.0	0.5	0.0	1.5	1.0
9	14.0	13.5	6.0	5.0	4.0	3.0	1.0	1.0	0.5	0.0	1.0	0.0
10	14.0	14.0	5.5	4.5	4.5	4.0	3.0	1.0	0.5	0.0	1.0	0.0
11	14.0	13.0	5.0	4.5	5.0	4.5	3.5	2.0	0.5	0.0	0.5	0.0
12	14.0	12.0	5.5	4.0	4.5	4.0	3.0	2.0	0.5	0.0	0.5	0.0
13	13.5	12.0	5.5	5.0	4.5	4.0	3.5	2.0	0.5	0.0	2.0	0.5
14	15.0	13.5	5.0	4.0	4.0	3.0	3.5	2.0	0.5	0.0	1.5	0.0
15	15.5	14.0	6.0	4.5	3.5	3.0	1.5	1.0	1.5	0.0	2.0	0.0
16	15.0	14.0	6.0	5.5	4.5	3.5	1.0	1.0	1.5	0.5	3.5	0.5
17	15.5	14.5	5.5	5.0	4.5	4.0	1.0	0.5	1.0	0.5	3.0	1.5
18	14.5	13.5	6.0	5.0	4.5	1.5	1.0	1.0	1.5	0.5	2.0	1.0
19	15.0	13.0	6.0	5.5	1.5	1.0	2.0	1.0	1.0	0.0	3.0	1.0
20	15.0	14.5	6.0	5.5	2.0	1.0	2.0	1.0	0.5	0.0	3.0	1.0
21	15.0	14.0	5.5	5.0	3.0	1.5	3.0	1.5	0.5	0.0	4.0	1.5
22	15.0	13.5	5.0	4.0	2.0	1.0	1.5	1.0	0.5	0.0	4.0	3.5
23	17.0	14.0	4.0	1.5	1.0	0.5	3.0	1.5	0.5	0.5	3.5	2.0
24	15.0	13.5	2.0	1.0	2.0	0.5	3.5	2.0	0.5	0.0	2.0	1.5
25	14.5	13.5	1.5	0.0	1.5	1.0	3.0	1.0	1.0	0.5	3.0	1.0
26	15.5	14.0	0.0	0.0	2.0	1.0	1.0	1.0	0.5	0.0	3.5	1.0
27	15.5	14.5	0.0	0.0	3.0	2.0	1.0	1.0	1.0	0.0	3.0	1.5
28	16.5	14.0	1.0	0.0	3.5	3.0	1.0	1.0	1.5	0.0	4.0	3.0
29	15.5	14.5	0.5	0.0	3.5	3.0	1.0	1.0	1.5	0.5	5.0	3.0
30	15.0	13.5	1.5	0.5	3.0	2.0	1.0	1.0	---	---	4.5	4.0
31	14.5	13.5	---	---	2.0	1.0	1.0	1.0	---	---	4.5	3.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	4.0	13.0	11.0	18.0	17.0	19.0	17.0	23.0	18.0	21.0	19.5
2	6.0	5.0	12.0	11.5	17.0	16.0	20.5	18.5	23.0	19.0	20.0	18.5
3	5.0	4.0	13.0	11.0	18.0	15.5	20.5	19.5	21.5	19.5	19.5	17.0
4	4.0	3.0	12.0	10.5	18.5	17.0	20.0	19.0	23.0	19.0	19.0	17.0
5	3.5	1.5	10.5	9.5	19.0	17.0	20.0	17.0	22.0	18.0	18.5	16.0
6	3.5	3.0	10.5	8.5	18.5	18.0	18.5	16.5	23.0	19.5	18.5	15.5
7	3.5	3.0	12.0	9.5	20.0	18.0	19.0	18.0	21.5	19.5	18.5	15.0
8	4.5	2.0	11.5	11.0	20.0	18.0	20.0	18.5	22.0	19.0	18.5	15.5
9	5.0	3.0	11.0	9.5	21.0	18.5	20.5	19.0	23.0	19.0	18.0	16.5
10	5.0	3.5	10.5	9.0	19.5	18.0	21.5	19.5	21.0	18.5	17.0	15.5
11	6.0	4.0	11.5	9.0	18.5	15.5	22.0	20.0	23.5	16.5	16.5	14.5
12	6.5	4.5	13.0	10.0	16.5	15.5	24.0	20.5	23.5	18.5	16.5	15.0
13	6.5	5.0	14.0	11.0	18.0	16.0	22.0	21.0	24.5	20.5	16.0	15.0
14	5.0	4.0	13.5	13.0	19.5	16.5	24.5	21.0	25.5	21.5	16.0	15.0
15	4.5	4.0	14.0	12.0	21.5	19.0	26.5	23.0	23.5	20.0	15.5	13.5
16	5.0	4.0	14.5	13.5	21.5	20.0	26.5	24.5	23.0	20.0	16.0	13.5
17	6.5	5.0	15.5	14.5	23.5	20.0	26.0	24.0	21.0	19.0	18.0	14.5
18	8.0	5.5	16.5	14.5	23.0	21.0	26.5	23.5	23.5	18.5	18.0	16.5
19	9.0	7.0	16.5	14.5	21.0	18.5	27.0	23.5	23.0	19.0	18.0	16.5
20	8.5	6.5	17.0	16.5	20.0	18.5	27.0	24.0	23.5	20.5	16.5	15.5
21	6.5	5.5	19.0	16.0	19.5	19.0	28.0	24.0	23.5	20.5	15.5	15.0
22	6.5	5.0	19.5	18.0	19.0	18.0	29.0	24.0	23.0	20.0	16.0	14.5
23	6.0	5.0	20.5	16.5	18.0	16.0	30.0	27.0	23.5	20.5	15.0	13.5
24	7.0	6.0	22.0	19.0	16.0	15.5	29.5	25.0	24.5	21.0	14.5	13.0
25	7.0	6.0	21.5	19.0	16.0	15.5	28.5	23.0	24.0	21.0	14.5	13.0
26	8.0	5.5	21.0	17.0	16.0	15.5	24.5	21.0	22.0	20.5	17.0	14.0
27	8.5	6.5	21.5	18.0	18.0	15.5	24.5	20.0	22.0	19.5	17.0	16.0
28	9.5	6.0	23.0	19.0	18.5	16.5	24.0	18.5	20.0	18.5	16.5	15.0
29	10.5	8.0	23.5	20.0	18.5	18.0	24.5	18.5	20.5	18.0	16.0	14.5
30	11.5	9.5	22.0	20.5	18.5	17.0	23.0	21.0	21.5	18.5	14.5	13.0
31	---	---	21.5	18.0	---	---	22.0	18.5	22.0	19.5	---	---

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.

LOCATION.--Lat 41°22'14", long 74°41'52", Orange County, N.Y.-Pike County, Pa., at gaging station at bridge on U.S. Highway 6 and 209 at Port Jervis, 1.2 miles upstream from Neversink River, and 6.5 miles downstream from Mongaup River.

DRAINAGE AREA.--3,076 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, July 1964 to June 1965, August 1966 to September 1972.
Water temperatures: February 1957 to September 1960.
Sediment records: February 1957 to September 1960; March 1971 to September 1972.

EXTREMES 1971-72.--Sediment concentration: Maximum daily 118 mg/l June 23; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily 10,400 tons June 24.

Period of record:
Sediment concentrations: Maximum daily 559 mg/l Apr. 6, 1958; minimum daily 1 mg/l on many days in 1957 and 1971-1972.
Sediment discharge: Maximum daily 69,300 tons Dec. 21, 1957; minimum daily 1 ton Aug. 29, 1957.

COOPERATION.--Seven chemical samples furnished by the New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
NOV.												
23...	1010	2750	1.3	50	20	7.8	1.5	2.7	.9	21	0	17
JAN.												
06...	1240	4020	3.1	40	40	6.8	1.3	2.8	.8	13	0	11
FEB.												
03...	0955	2570	2.5	50	0	6.8	1.4	2.7	.7	13	0	11
MAR.												
29...	0945	7260	2.9	50	30	6.9	1.3	3.2	1.1	14	0	11
MAY												
03...	1000	6360	2.3	30	0	6.4	1.2	2.4	.8	12	0	10
31...	0945	3180	.8	50	0	6.7	1.3	2.7	.8	15	0	12
JUNE												
06...	1600	9360	2.2	--	--	6.8	1.3	4.3	.8	14	0	11
22...	1110	10500	2.6	90	20	7.0	1.2	2.6	.6	14	0	11
JULY												
18...	0945	3590	1.8	60	0	6.3	1.5	2.4	.8	14	0	11
AUG.												
30...	1100	1900	1.7	20	0	7.2	1.5	2.6	1.0	17	0	14
SEP.												
27...	0945	2610	1.6	30	0	7.8	1.7	2.6	1.0	18	0	15

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
NOV.												
23...	11	3.7	.0	.23	.43	.005	.06	.14	.030	40	10	26
JAN.												
06...	12	5.5	.0	.12	.49	.005	.08	.28	.019	40	15	22
FEB.												
03...	12	5.0	.0	.15	.59	.004	.09	.35	.010	39	3	23
MAR.												
29...	11	5.2	.0	.40	1.0	.005	.16	.48	.032	41	13	23
MAY												
03...	11	3.6	.0	.49	.94	.005	.07	.38	.091	36	15	21
31...	12	4.3	.0	.28	.65	.005	.15	.22	.021	37	16	22
JUNE												
06...	10	3.4	.1	--	--	--	--	.30	--	37	--	22
22...	11	4.0	.0	.34	.64	.003	.10	.20	.056	37	23	22
JULY												
18...	12	3.6	.0	.27	.49	.010	.09	.12	.023	36	5	22
AUG.												
30...	9.7	4.0	.0	.43	.87	.002	.04	.40	.016	38	2	24
SEP.												
27...	9.9	3.8	.0	.25	.75	.006	.01	.49	.032	40	3	26

CONTINUED NEXT PAGE

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV. 23...	8	76	7.6	--	--	0	.01	5	20	--	<.5
JAN. 06...	12	71	6.5	--	--	10	.02	--	--	--	--
FEB. 03...	12	69	6.9	--	--	2	.02	--	--	--	--
MAR. 29...	11	69	6.6	--	--	6	.02	4	0	--	<.5
MAY 03...	11	62	6.9	--	--	8	.02	--	--	--	--
31...	10	66	7.0	--	--	10	.02	--	--	--	--
JUNE 06...	11	60	6.9	17.5	--	--	--	--	--	--	--
22...	11	61	6.9	--	--	12	.03	--	--	--	--
JULY 18...	10	60	7.0	23.0	8.5	8	.02	9	0	0	<.5
AUG. 30...	10	69	7.3	20.5	8.1	5	.02	--	--	--	--
SEP. 27...	12	72	7.4	16.5	9.2	5	.02	--	--	--	--

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2110	6	34	1980	2	11	5800	--	--
2	1990	9	48	2400	1	6.5	4850	--	--
3	1720	8	37	2500	8	54	4020	--	--
4	1300	4	14	2460	--	--	3370	--	--
5	2150	10	58	2310	--	--	3030	--	--
6	2110	10	57	2010	--	--	2860	--	--
7	2330	9	57	2050	--	--	7450	--	--
8	2350	8	51	2230	--	--	22900	--	--
9	2070	10	56	2090	--	--	18900	--	--
10	2270	12	74	2030	--	--	14600	10	394
11	3560	16	154	1670	--	--	18000	--	--
12	3670	16	159	1740	--	--	21400	--	--
13	3180	10	86	1790	--	--	15700	--	--
14	2770	6	45	1860	--	--	12200	--	--
15	2660	15	108	2090	--	--	10500	--	--
16	2150	25	145	2400	--	--	10500	--	--
17	1980	15	80	2130	--	--	11000	--	--
18	2150	5	29	1860	--	--	10100	--	--
19	1980	6	32	2050	--	--	8140	--	--
20	2090	6	34	1960	--	--	6910	--	--
21	1960	7	37	1920	--	--	6190	--	--
22	1750	8	38	2130	--	--	5550	--	--
23	1420	6	23	2630	--	--	4600	--	--
24	1500	6	24	2190	--	--	4080	--	--
25	1310	20	71	2130	--	--	4290	--	--
26	1650	32	143	1980	--	--	4480	--	--
27	1840	20	99	2400	--	--	4480	--	--
28	1900	12	62	2380	--	--	4760	--	--
29	2150	7	41	2290	--	--	5800	--	--
30	1980	2	11	4110	--	--	5800	--	--
31	1920	2	10	--	--	--	8380	--	--
TOTAL	65970	--	1917	65770	--	E800	270640	--	E20000

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6950	--	--	3300	--	--	3160	--	20
2	5800	--	--	3100	--	--	5520	8	141
3	6270	--	--	2800	--	--	23600	--	5000
4	6270	--	--	3000	--	--	16600	--	2000
5	5620	--	--	3300	--	--	11000	--	500
6	4850	--	--	3000	--	--	9110	--	300
7	4510	--	--	2700	--	--	7610	--	200
8	3900	--	--	2800	--	--	6870	2	37
9	3210	--	--	3000	--	--	6190	4	67
10	3260	--	--	3000	--	--	5730	6	93
11	4630	--	--	2600	--	--	4410	4	48
12	5520	--	--	2300	--	--	3760	2	20
13	5480	--	--	2000	--	--	5210	--	55
14	7610	5	103	2500	--	--	6640	--	120
15	7500	--	--	3500	--	--	5730	--	75
16	5500	--	--	6270	--	--	5250	--	55
17	4700	--	--	5210	--	--	12100	--	1600
18	4500	--	--	4260	5	58	22700	70	4290
19	4600	--	--	3300	--	--	16000	19	821
20	4800	--	--	2600	--	--	12100	6	196
21	4000	--	--	2600	--	--	11100	4	120
22	3200	--	--	2800	--	--	13400	7	253
23	2900	--	--	3000	--	--	26700	71	5120
24	3300	--	--	3100	--	--	21200	28	1600
25	4200	--	--	3160	--	--	15700	5	212
26	5200	--	--	2840	--	--	12500	3	101
27	4000	--	--	2460	--	--	10700	1	29
28	3000	--	--	2500	--	--	9470	1	26
29	2800	--	--	2910	--	--	7930	1	21
30	2700	--	--	--	--	--	7930	2	43
31	2900	--	--	--	--	--	7730	2	62
TOTAL	143680	--	E1500	89910	--	E1000	333650	--	23205

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.—Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7410	2	40	7300	4	79	23300	70	4400
2	8550	1	23	7060	4	76	18000	24	1170
3	9330	1	25	6990	5	94	13900	13	488
4	8760	1	24	11400	9	308	11700	10	316
5	7850	1	21	23900	56	3610	11100	8	240
6	7220	1	19	18300	20	988	9780	4	106
7	7260	1	20	13900	4	150	8720	15	353
8	6640	1	18	11800	2	64	7450	9	181
9	5800	1	16	11200	7	212	6760	14	256
10	5760	1	16	13600	4	147	8810	18	428
11	6010	1	16	13700	4	148	6800	8	147
12	6270	1	17	11700	3	95	5830	8	126
13	7570	—	230	9690	2	52	5380	9	131
14	16400	28	1240	8470	2	46	4920	12	159
15	15300	8	330	8220	4	89	4110	14	155
16	14200	2	77	8380	3	68	3760	12	122
17	25600	73	5340	8720	2	47	3450	10	93
18	27500	45	3340	8380	4	91	3560	12	115
19	23800	27	1740	8220	4	89	5280	15	214
20	23900	20	1360	6190	4	67	6380	8	138
21	32200	106	9220	6530	4	71	6300	8	136
22	24800	40	2680	6530	2	35	10900	50	1650
23	22600	16	976	5940	2	32	31500	118	10200
24	20400	11	606	5250	2	28	42600	90	10400
25	17300	10	467	4730	2	26	31600	26	2220
26	15100	4	163	4380	2	24	25000	16	1080
27	13000	3	105	3400	6	55	18800	14	711
28	11100	1	30	2720	10	73	15200	13	534
29	9110	4	98	2460	8	53	13400	12	434
30	7810	1	21	2460	7	46	15200	15	616
31	--	--	--	9200	—	600	--	--	--
TOTAL	414550	--	28278	270720	--	7563	379490	--	37319

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	22700	35	2150	2170	4	23	1860	2	10
2	17400	13	611	2310	4	25	1840	2	9.9
3	13700	6	222	2330	3	19	1960	5	26
4	11500	4	124	2520	4	27	1960	8	42
5	10300	4	111	2680	5	36	1880	7	36
6	10200	4	110	1960	4	21	2010	6	33
7	8140	3	66	1770	2	9.6	1990	7	38
8	6830	2	37	2610	6	42	1990	8	43
9	6640	4	72	2840	12	92	2010	8	43
10	6300	4	68	2630	12	85	1700	7	32
11	6160	3	50	2290	13	80	2090	7	40
12	5550	2	30	2170	10	59	2110	7	40
13	5830	2	31	1680	8	36	2380	10	64
14	4170	2	23	1770	7	33	2960	12	96
15	3560	2	19	2550	6	41	2570	8	56
16	3030	2	16	1920	6	31	2090	5	28
17	3960	4	43	1470	5	20	2070	6	34
18	3930	5	53	1150	6	19	2290	6	37
19	3790	4	41	1680	8	36	2330	4	25
20	3670	4	40	1670	8	36	2010	2	11
21	3510	4	38	1700	7	32	1900	2	10
22	2630	4	28	1940	6	31	2130	2	12
23	2030	4	22	1860	4	20	2110	2	11
24	1960	3	16	2420	8	52	2030	2	11
25	2400	4	26	2770	11	82	2130	2	12
26	2250	4	24	2960	10	80	2110	3	17
27	1990	3	16	2420	10	65	2720	4	29
28	1770	2	9.6	2270	4	25	2440	5	33
29	1770	2	9.6	2190	5	30	2070	6	34
30	1840	2	9.9	1960	3	16	2030	6	33
31	2030	3	16	1810	1	4.9	—	--	--
TOTAL	181540	—	4132.1	66470	--	1208.5	63770	--	945.9

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	2346160
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	127868.5

CONTINUED NEXT PAGE

01438000 NEVERSINK RIVER AT PORT JERVIS, N.Y.

LOCATION.—Lat 41°21'40", long 74°41'07", Orange County, at bridge on U.S. Highway 6 (Main Street) in Port Jervis and 0.7 mile upstream from mouth.

DRAINAGE AREA.—333 sq mi.

PERIOD OF RECORD.—Chemical analyses: April 1969 to September 1972.

COOPERATION.—Some samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
NOV.												
23...	0930	210	2.4	90	30	8.5	1.7	5.0	1.0	22	0	18
JAN.												
06...	1205	420	4.0	70	0	7.7	1.7	5.7	.9	18	0	15
FEB.												
02...	0920	200	3.2	90	0	8.0	1.6	5.3	.9	18	0	15
MAR.												
29...	0910	730	2.8	60	0	6.9	1.3	4.3	.7	14	0	11
MAY												
03...	0930	722	2.3	80	0	6.5	1.2	3.1	.7	13	0	11
31...	0915	1710	2.8	120	40	9.0	1.5	4.9	1.0	20	0	16
JUNE												
02...	1630	2130	3.0	90	0	5.7	.9	2.9	.7	10	0	8
22...	1040	2690	3.4	220	30	6.5	1.4	5.2	.8	12	0	10
JULY												
18...	1145	700	3.5	100	0	7.5	1.3	2.9	.6	16	0	13
AUG.												
30...	1250	76	3.2	90	10	12	2.0	7.4	1.2	31	0	25
SEP.												
27...	1115	67	2.8	60	0	13	2.1	7.0	1.3	34	0	28

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
NOV.												
23...	12	4.5	.0	.56	1.0	.009	.24	.29	.20	49	10	28
JAN.												
06...	13	9.7	.1	.12	.87	.014	.38	.36	.11	54	30	26
FEB.												
02...	13	8.0	.1	.27	1.1	.008	.39	.52	.13	52	6	27
MAR.												
29...	12	6.5	.0	.45	.99	.005	.21	.32	.11	44	46	23
MAY												
03...	11	4.5	.0	.18	.52	.005	.10	.24	.075	37	23	21
31...	14	6.3	.0	.70	1.9	.005	.11	1.1	.36	55	36	29
JUNE												
02...	13	4.1	.0	--	--	.005	.09	.42	--	37	--	18
22...	13	8.3	.0	.94	1.5	.008	.14	.46	.17	48	80	22
JULY												
18...	13	4.0	.0	.44	.79	.010	.09	.25	.063	42	9	24
AUG.												
30...	13	10	.1	.53	1.4	.008	.10	.78	.33	68	4	38
SEP.												
27...	13	9.6	.1	.45	--	.007	.03	.76	.34	69	3	41

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.											
23...	10	92	7.2	--	--	4	.03	9	10	--	<.5
JAN.											
06...	11	96	6.6	--	--	7	.03	--	--	--	--
FEB.											
02...	12	91	6.9	--	--	4	.03	--	--	--	--
MAR.											
29...	11	70	6.7	--	--	3	.02	5	0	--	<.5
MAY											
03...	11	66	6.9	--	--	9	.02	--	--	--	--
31...	12	91	6.9	--	--	12	.04	--	--	--	--
JUNE											
02...	10	58	6.5	15.5	--	19	.02	--	--	--	--
22...	12	76	6.6	--	--	24	.05	--	--	--	--
JULY											
18...	11	68	6.9	20.5	8.0	9	.01	11	0	1	<.5
AUG.											
30...	13	122	7.2	21.0	7.0	8	.04	--	--	--	--
SEP.											
27...	13	128	7.4	--	--	8	.03	--	--	--	--

01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, at bridge on Bridge Street in Unadilla, 25 ft upstream from gaging station, 1.0 mile upstream from Carrs Creek, and 1.6 miles downstream from Ouleout Creek.

DRAINAGE AREA.--982 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 19...	1030	210	1.3	10	0	25	2.4	4.6	1.3	75	0	62
NOV. 22...	1030	405	1.4	50	0	22	2.8	3.8	1.6	64	0	52
DEC. 22...	1145	2290	3.8	30	0	18	2.1	2.6	1.0	48	0	39
JAN. 21...	1130	1920	4.3	60	0	19	2.3	3.4	.9	53	0	43
FEB. 22...	1200	688	3.4	80	0	25	2.7	4.2	1.0	70	0	57
MAR. 21...	1030	3000	4.2	90	0	14	1.6	2.7	1.1	34	0	28
APR. 23...	1300	9360	3.7	--	--	15	1.6	2.0	.8	39	0	32
MAY 22...	1100	2300	3.2	20	0	20	2.0	2.8	.9	55	0	45
JUNE 20...	1000	2290	3.5	50	0	15	1.9	2.6	.8	42	0	34
JULY 24...	1230	652	3.3	80	0	24	2.5	3.5	1.1	72	0	59
AUG. 21...	0930	280	2.7	20	0	28	3.0	4.0	1.0	81	0	66
SEP. 18...	1000	165	2.4	10	0	28	3.0	4.4	1.2	85	0	70

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 19...	13	6.0	.1	.16	.66	.108	.13	.26	.050	93	4	72
NOV. 22...	13	5.7	.1	.32	.76	.018	.07	.35	.040	84	4	66
DEC. 22...	14	4.2	.0	.34	1.2	.007	.19	.73	.030	73	8	54
JAN. 21...	14	4.9	.0	.31	1.1	.008	.06	.74	.019	79	8	57
FEB. 22...	14	6.8	.0	.18	1.1	.008	.07	.85	.028	96	2	74
MAR. 21...	12	3.8	.0	.28	1.0	.008	.09	.69	.036	60	15	42
APR. 23...	11	2.5	.0	--	--	--	--	.50	--	--	--	44
MAY 22...	13	3.7	.0	.48	1.1	.003	.02	.60	.042	76	11	58
JUNE 20...	11	3.1	.0	.53	1.5	.005	.40	.60	.044	62	21	45
JULY 24...	13	5.0	.0	.40	1.1	.016	.10	.59	.038	91	8	70
AUG. 21...	13	5.8	.0	.43	1.0	.015	.02	.58	.037	100	8	82
SEP. 18...	14	6.2	.1	.33	1.1	.020	.13	.66	.057	105	7	82

01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 19...	11	170	7.6	11.0	10.6	97	4	.03	--	--	--	--
NOV. 22...	14	150	7.7	6.5	10.6	87	2	.02	8	0	2	<.5
DEC. 22...	14	127	7.3	.5	9.8	70	6	.04	--	--	--	--
JAN. 21...	13	138	7.4	.0	11.2	78	4	.02	--	--	--	--
FEB. 22...	16	171	7.6	.0	12.2	85	2	.02	--	--	--	--
MAR. 21...	14	109	7.0	.0	11.7	81	8	.02	4	20	0	<.5
APR. 23...	12	102	7.2	7.0	9.6	79	--	--	--	--	--	--
MAY 22...	13	136	7.3	14.0	9.1	89	8	.01	--	--	--	--
JUNE 20...	11	121	7.2	17.5	7.7	82	8	.02	--	--	--	--
JULY 24...	11	164	8.0	25.0	7.6	92	6	.02	--	--	--	--
AUG. 21...	16	182	8.0	18.0	8.6	91	3	.02	--	--	--	--
SEP. 18...	13	190	7.9	19.0	7.9	86	3	.02	--	--	--	--

01508800 FACTORY BROOK AT HOMER, N.Y.

LOCATION.--Lat 42°38'39", long 76°11'14", Cortland County, at bridge on State Highway 41, in Homer, 1.0 mile upstream from mouth.

DRAINAGE AREA.--15.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: June to September 1972.

CHEMICAL ANALYSES, JUNE TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JUNE 15...	0945	20	2.9	46	8.9	3.6	.9	147	0	121	17
JULY 28...	1200	10	4.3	51	10	3.3	.7	159	2	134	16
AUG. 21...	1530	6.2	4.7	51	10	3.2	1.2	149	11	141	16
SEP. 18...	1500	5.7	4.1	52	10	3.4	1.0	149	11	141	16

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/LT	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
JUNE 15...	7.0	.0	3.0	172	150	31	308	8.2	14.5	--	--
JULY 28...	6.5	.1	3.9	189	170	35	334	8.4	15.5	8.2	83
AUG. 21...	6.2	.1	3.5	192	170	28	328	8.7	16.0	8.3	84
SEP. 18...	6.5	.1	3.7	194	170	30	324	8.8	20.0	9.0	99

01508803 WEST BRANCH TIOUGHNIOGA RIVER AT HOMER, N.Y.

LOCATIONS.--Lat 42°38'13", long 76°10'37", Cortland County, at gaging station at bridge on Wall Street, in Homer, and 3.4 miles upstream from confluence with East Branch.

DRAINAGE AREA.--71.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: July to September 1972.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
JULY											
28...	1000	67	3.6	51	14	7.7	.9	186	0	153	18
AUG.											
21...	1400	46	3.1	50	14	7.7	.8	168	5	146	18
SEP.											
18...	1400	45	2.4	51	14	9.6	1.1	177	0	145	20

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION
JULY											
28...	16	.1	1.3	208	190	32	379	8.1	19.0	8.0	87
AUG.											
21...	16	.1	1.4	204	180	36	364	8.5	21.0	7.4	83
SEP.											
18...	19	.1	.90	208	190	40	408	8.3	20.0	8.2	90

01509000 TIOUGHNIOGA RIVER AT CORTLAND, N.Y.

LOCATION.--Lat 42°35'48", long 76°09'28", Cortland County, at Cortland Sewage Treatment Plant at Cortland, 0.1 mile downstream from bridge on State Highway 11, and 0.4 mile downstream from gaging station.

DRAINAGE AREA.--292 sq mi (including 14.0 sq mi, the flow from which may be diverted into De Ruyter Reservoir in Oswego River basin).

PERIOD OF RECORD.--Chemical analyses: October 1956 to September 1957.
Water temperatures: October 1956 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 20.0°C July 19-24; minimum, freezing point Jan. 16, Feb. 21-23, Mar. 4.

Period of record:
Water temperatures: Maximum, 23.5°C July 22, 1957; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature records furnished by the city of Cortland.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE 23...	1745	7800	3.5	1800	110	14	1.9	1.3	1.1	40	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
JUNE 23...	33	12	1.7	.1	.70	58	43	10	95	7.0	14.5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT AT 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	13.0	3.5	1.0	3.0	5.5	4.0	11.0	14.5	15.5	15.0	16.5
2	14.0	14.5	4.5	2.0	3.0	5.5	4.5	11.5	14.5	16.5	16.0	16.5
3	14.0	12.5	4.5	3.0	3.0	4.5	4.0	12.5	15.0	17.5	16.0	15.0
4	13.5	11.0	5.0	3.5	2.5	0.0	3.0	11.5	16.5	15.5	17.0	16.0
5	14.5	11.0	5.0	3.0	1.0	2.5	3.0	9.5	16.0	15.5	16.0	14.5
6	13.0	11.0	4.5	1.0	1.0	1.0	3.5	9.5	[illegible]	15.0	16.0	15.0
7	12.5	8.5	2.0	3.0	2.0	1.5	3.0	11.0	16.0	16.0	16.0	15.5
8	12.0	7.0	4.0	1.0	2.0	3.0	2.5	10.0	15.0	16.0	16.0	15.0
9	12.5	11.0	4.0	1.5	2.0	1.0	3.5	8.0	15.0	15.5	16.5	15.0
10	13.0	10.0	5.0	2.5	3.0	1.0	5.0	8.0	13.5	16.5	15.0	14.5
11	12.0	11.0	6.0	3.5	3.5	1.0	5.0	9.0	12.0	17.0	15.0	14.0
12	11.0	11.5	4.0	3.5	3.0	3.0	4.5	9.0	12.5	18.0	15.5	14.0
13	10.0	9.0	4.5	4.0	4.0	4.0	5.0	10.5	13.0	18.0	16.0	15.0
14	13.0	8.5	3.0	3.5	4.0	4.5	3.0	10.5	15.0	18.5	15.5	17.0
15	12.0	7.0	4.0	1.0	2.5	4.5	4.5	12.0	17.0	18.5	16.0	14.5
16	12.0	8.0	6.0	0.0	4.5	4.5	5.0	13.0	17.5	18.5	15.0	14.5
17	12.0	8.0	5.0	1.0	2.5	5.0	5.5	13.0	16.0	19.0	14.5	14.5
18	11.0	8.5	3.0	2.0	3.5	4.5	6.0	13.5	16.0	19.0	14.5	16.0
19	11.0	8.5	1.0	3.5	3.0	3.0	8.0	14.0	17.0	20.0	15.0	15.5
20	12.0	9.0	2.0	3.0	1.0	4.0	8.0	14.5	17.5	20.0	15.0	15.0
21	11.0	8.5	4.5	3.0	0.0	4.0	6.5	14.5	17.5	20.0	14.5	14.0
22	12.0	8.5	2.0	3.5	0.0	4.0	6.0	16.0	16.5	20.0	15.0	14.0
23	13.0	6.0	1.5	4.0	0.0	1.5	5.0	15.5	15.5	20.0	16.0	14.0
24	12.0	5.0	3.0	3.0	2.0	1.5	6.5	15.5	14.0	20.0	16.5	13.5
25	12.0	6.5	2.0	3.5	2.5	1.5	6.5	15.5	14.0	19.0	16.0	14.0
26	12.0	7.5	3.0	2.0	3.0	1.0	7.0	15.5	14.0	18.0	16.5	15.5
27	13.0	7.0	3.5	2.0	2.0	2.5	7.5	15.0	14.5	16.0	16.5	15.0
28	13.0	7.5	4.5	2.0	3.0	3.0	8.0	15.5	15.5	16.0	16.5	13.5
29	12.0	6.5	4.0	2.0	3.5	4.0	8.5	15.5	16.5	16.0	16.5	14.0
30	12.0	6.0	2.0	2.0	---	4.5	8.5	16.0	15.5	16.0	16.0	14.0
31	13.0	---	1.0	2.0	---	4.0	---	15.0	---	15.0	16.5	---
AVERAGE	12.5	9.0	3.5	2.5	2.5	3.0	5.5	12.5	15.5	17.5	15.5	15.0

01513107 SUSQUEHANNA RIVER AT C.F.J. MEMORIAL BRIDGE AT JOHNSON CITY, N.Y.

LOCATION.--Lat 42°06'13", long 75°58'10", Broome County, at C.F.J. Memorial Bridge in Johnson City and 3.0 miles downstream from Chenango River.

DRAINAGE AREA.--3,891 sq mi below mouth of Chenango River.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 04...	1130	19.5	7.9	84	170	4300	215	8.1	3	<.5
NOV. 01...	1100	15.0	9.6	94	260	3100	320	8.0	11	<.5
DEC. 06...	1300	1.0	11.7	83	26000	190000	435	7.3	5	<.5
JAN. 04...	1130	1.0	12.0	88	380	5100	190	7.3	4	<.5
FEB. 08...	1130	.0	12.4	86	70	1500	200	7.4	4	<.5
MAR. 06...	1230	.0	11.7	81	4100	32000	170	6.9	3	<.5
APR. 04...	1100	3.5	10.8	83	7300	31000	160	7.5	6	<.5
MAY 02...	1130	11.5	9.8	90	--	200000	215	7.6	5	<.5
JUNE 05...	1130	16.0	8.6	88	15000	110000	143	7.3	5	<.5
JULY 04...	1100	19.0	9.2	100	1000	15000	220	7.5	<1	<.5
AUG. 07...	1200	22.0	8.5	98	16000	87000	200	7.4	8	<.5
SEP. 07...	1230	21.0	8.7	99	E40	2700	340	8.0	4	<.5

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TURBIDITY (JTU)	OIL AND GREASE (MG/L)
SEP. 07...	1.3	44	139	0	114	.0	1.2	.70	.054	3	22

DATE	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
SEP. 07...	.02	.04	18	0	100	2	60	3	2	20

CONTINUED NEXT PAGE

01513107 SUSQUEHANNA RIVER AT C.F.J. MEMORIAL BRIDGE AT JOHNSON CITY, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOXAPHENE (UG/L)	DIAZINON (UG/L)
SEP. 07...	.00	E.0	.00	.00	.00	.00	.00	.00	.00	.00	.0	.00

DATE	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP. 07...	.00	.00	.00	.00	.00	.00	.01	.01	.00	E.0	4.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)
SEP. 07...	.0	E.0	.4	.0	.5	.0	.0	.0

DATE	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
SEP. 07...	.0	.0	.0	.00	.0	.0	.0	E.0

RADIOCHEMICAL ANALYSIS

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (PC/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (PC/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 07...	3.3	10	<.1	<.4	4.9	4.0	<.4	<.4

01513110 SUSQUEHANNA RIVER AT JOHNSON CITY, N.Y.

LOCATION.--Lat 42°06'37", long 75°58'30", Broome County, at intake of the New York State Electric and Gas Corporation, Goudey Station, at Johnson City, 100 ft upstream from Little Choconut Creek, 0.5 mile downstream from C.F.J. Memorial Bridge, 3.5 miles downstream from Chenango River and 4.8 miles upstream from former gaging station (01513500) at Vestal.

DRAINAGE AREA.--3,891 sq mi below mouth of Chenango River.

PERIOD OF RECORD.--Water temperatures: October 1955 to September 1972. Prior to October 1967, published as 01513500, "at Vestal."

EXTREMES.--1971-72:
Water temperatures: Maximum, 26.5°C July 23; minimum, freezing point on many days during December, January and March.

Period of record:
Water temperatures: Maximum, 28.0°C July 29, 1963, Aug. 18, 1965 and July 18, 1968; minimum, freezing point on many days during winter periods.

REMARKS.--During winter periods water is at times recirculated from inside the plant through the intake to prevent icing conditions, thus resulting in reported water temperatures which are slightly above actual river temperatures.

COOPERATION.--Water temperature records furnished by the New York State Electric and Gas Corporation.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT AT 0800)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	13.0	1.5	0.0	0.5	1.0	3.5	11.0	18.0	17.0	19.5	23.0
2	18.0	14.0	0.5	0.0	0.5	1.0	4.5	12.0	15.5	18.0	22.0	21.5
3	19.5	15.0	0.0	0.0	1.0	0.5	3.0	13.5	15.5	18.5	21.0	21.5
4	19.0	11.0	0.5	0.5	0.5	0.0	3.0	13.0	18.0	18.5	20.0	20.0
5	18.0	8.5	0.0	0.5	0.5	0.0	1.5	11.0	17.0	17.0	19.5	19.0
6	17.0	8.5	0.5	0.0	0.5	0.0	1.5	9.5	18.5	16.5	20.5	18.5
7	15.5	9.0	1.0	0.0	0.5	0.0	1.0	11.0	18.0	16.5	21.0	19.0
8	13.0	6.0	1.0	0.0	0.5	0.5	1.5	11.0	17.0	18.0	20.5	20.0
9	13.5	4.0	2.0	0.0	0.5	0.0	2.0	9.5	17.0	17.0	21.0	20.5
10	13.5	4.5	2.0	0.0	0.5	0.0	3.5	8.5	16.5	19.0	20.0	18.5
11	13.0	4.5	4.0	1.0	0.5	0.0	4.0	10.0	14.5	19.5	18.5	18.0
12	11.0	4.5	3.5	0.5	1.0	0.0	4.0	10.5	15.0	20.5	20.5	19.0
13	11.0	5.5	3.5	0.5	1.0	0.5	5.5	11.0	15.0	22.0	20.5	19.5
14	12.0	5.0	2.0	1.0	1.0	0.5	3.5	12.0	16.0	22.0	23.0	19.5
15	14.0	5.0	1.5	0.0	1.0	0.5	3.5	13.0	18.0	21.0	21.5	18.0
16	14.0	5.5	3.0	0.0	1.0	1.0	4.0	14.0	20.5	23.5	20.5	18.0
17	14.0	5.5	4.0	0.0	1.0	1.0	4.5	14.0	18.5	24.0	20.5	19.0
18	13.5	5.5	3.0	0.0	1.0	1.0	6.0	14.5	18.5	24.0	18.5	21.0
19	13.0	6.5	0.5	0.0	1.0	0.5	8.0	15.5	18.5	24.5	20.0	20.5
20	13.0	6.5	0.5	0.0	1.0	1.0	9.0	16.0	19.5	25.0	---	18.0
21	13.0	5.5	0.5	0.0	1.0	1.5	6.0	15.5	20.0	25.0	21.0	18.0
22	12.0	3.5	1.0	0.0	1.0	3.0	6.5	16.5	18.0	25.5	22.0	17.0
23	13.5	2.0	0.0	0.5	1.0	1.0	6.0	18.0	16.5	26.5	23.0	16.0
24	14.5	2.0	0.5	0.5	1.0	0.5	6.0	18.0	15.5	26.0	24.0	15.5
25	13.5	0.5	0.5	1.0	1.0	1.0	6.0	18.0	15.0	25.5	24.5	15.0
26	13.5	0.5	0.5	0.0	1.0	0.5	6.0	17.0	15.0	23.0	25.0	17.0
27	13.5	2.0	0.5	0.0	0.5	1.0	7.0	17.0	15.5	21.5	25.0	19.0
28	13.5	2.0	1.5	0.0	1.0	1.0	7.0	18.5	16.5	20.5	23.5	16.5
29	14.5	3.0	1.5	0.0	1.0	1.5	8.5	19.0	17.0	21.0	22.0	16.5
30	13.5	3.5	1.5	0.0	---	3.0	9.5	19.5	16.5	21.5	22.0	16.0
31	13.0	---	0.5	0.0	---	3.0	---	19.5	---	21.0	22.0	---

01528000 FIVEMILE CREEK NEAR KANONA, N.Y.

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, at gaging station at highway bridge, 1.3 miles upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 sq mi

PERIOD OF RECORD.--Chemical analyses: March 1966 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 20...	1000	1.3	.2	20	0	47	12	7.5	1.6	157	0	129
NOV. 18...	1000	3.4	1.4	30	0	50	12	11	1.8	159	0	130
DEC. 20...	1030	59	5.2	50	0	28	6.4	6.3	1.8	61	0	50
JAN. 24...	1030	97	4.5	60	0	21	5.4	5.1	1.2	50	0	41
FEB. 17...	1030	23	4.6	110	0	34	7.7	8.1	1.3	92	0	75
MAR. 22...	1100	624	4.2	400	0	13	3.5	2.9	1.2	32	0	26
APR. 20...	1100	216	4.2	80	0	19	4.3	4.0	1.2	45	0	37
MAY 18...	1430	121	4.1	40	0	21	4.5	4.3	1.3	58	0	48
JUNE 21...	1130	1640	3.5	70	150	9.5	2.2	2.8	1.7	23	0	19
25...	1315	1210	5.1	--	--	16	3.5	2.7	2.3	41	0	34
JULY 27...	1030	27	5.3	180	0	41	6.8	7.0	1.8	122	0	100
AUG. 24...	1330	9.1	1.5	40	0	42	9.2	8.4	2.0	139	4	121
SEP. 21...	1400	9.5	4.0	60	10	45	8.9	7.3	1.8	133	4	116

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 20...	29	12	.0	.24	.47	.008	.14	.09	.010	187	4	170
NOV. 18...	35	18	.0	.34	.89	.274	.05	.23	.030	210	5	170
DEC. 20...	41	10	.0	.54	2.0	.010	.16	1.3	.060	136	4	96
JAN. 24...	29	8.2	.0	.32	1.2	.004	.07	.88	.061	104	6	75
FEB. 17...	38	14	.0	.48	1.6	.012	.05	1.0	.068	158	3	120
MAR. 22...	21	4.5	.0	1.2	2.1	.008	.29	.65	.23	71	160	47
APR. 20...	25	6.0	.0	.40	1.2	.005	.03	.86	.059	90	37	65
MAY 18...	25	6.0	.1	2.4	3.1	.005	.06	.65	.058	100	20	71
JUNE 21...	12	3.0	.0	5.9	6.8	.010	.28	.69	1.6	55	2720	33
25...	20	4.0	.1	--	--	--	--	1.1	--	79	--	54
JULY 27...	26	10	.1	.58	1.8	.020	.14	1.0	.075	164	8	130
AUG. 24...	27	13	.1	.76	1.3	.023	.16	.38	.064	178	9	140
SEP. 21...	30	13	.1	.51	1.1	.007	.15	.50	.029	182	2	150

01528000 FIVEMILE CREEK NEAR KANONA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAl LEAl (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.												
20...	38	335	8.1	10.5	10.2	92	2	.03	--	--	--	--
NOV.												
18...	44	366	7.9	5.5	13.0	105	4	.02	4	0	0	<.5
DEC.												
20...	46	223	7.3	.5	11.3	79	11	.05	--	--	--	--
JAN.												
24...	34	179	7.4	.5	11.6	82	13	.03	--	--	--	--
FEB.												
17...	41	264	7.8	.0	10.4	72	10	.03	--	--	--	--
MAR.												
22...	21	115	7.3	1.5	11.2	80	20	.02	6	20	3	.5
APR.												
20...	28	155	7.0	8.5	10.1	91	14	.04	--	--	--	--
MAY												
18...	23	170	8.1	16.0	9.6	98	4	.02	--	--	--	--
JUNE												
21...	14	78	6.7	17.0	9.6	9	220	.03	--	--	--	--
25...	21	129	7.3	19.0	--	--	--	--	--	--	--	--
JULY												
27...	30	282	8.2	18.5	8.9	96	14	.02	--	--	--	--
AUG.												
24...	22	319	8.6	25.0	9.4	113	10	.03	--	--	--	--
SEP.												
21...	33	305	8.8	17.5	11.0	116	10	.05	--	--	--	--

01530900 CHEMUNG RIVER AT WELLSBURG, N.Y.

LOCATION.--Lat 42°01'02", long 76°43'24", Chemung County, at bridge on State Highway 367 in Wellsburg, 0.4 mile downstream from Bentley Creek and 6.3 miles upstream from gaging station (01531000) at Chemung.

DRAINAGE AREA.--2,530 sq mi at gaging station.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1972

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
04...	0930	21.0	5.0	54	57	3200	185	7.9	0	<.5
NOV.										
01...	0900	15.0	6.1	60	280	6300	380	7.4	9	<.5
DEC.										
06...	1030	2.0	10.6	75	15	470	420	7.6	3	<.5
JAN.										
04...	0930	2.0	10.2	82	120	920	250	7.3	2	<.5
FEB.										
08...	0930	.0	11.4	79	64	490	260	7.2	2	<.5
MAR.										
06...	1000	.0	10.0	70	570	2100	220	6.7	2	<.5
APR.										
04...	0900	4.0	9.8	75	770	8500	170	7.1	4	<.5
MAY										
02...	0900	13.0	9.0	86	45	440	265	7.6	4	<.5
JUNE										
05...	0930	16.5	7.6	78	3100	21000	190	7.3	6	<.5
JULY										
04...	0900	19.5	6.9	74	2400	--	227	7.3	5	<.5
AUG.										
07...	1000	22.5	6.8	79	28000	--	235	7.4	6	<.5
SEP.										
07...	0930	20.0	7.0	81	E27000	--	430	7.6	4	<.5

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TUR-BID-ITY (JTU)	OIL AND GREASE (MG/L)
SEP.											
07...	1.3	57	162	0	133	.2	.79	.80	.26	4	8.0

DATE	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
SEP.										
07...	.03	.04	1	0	110	3	90	6	2	40

01530900 CHEMUNG RIVER AT WELLSBURG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)	DI-AZINON (UG/L)
SEP. 07...	.00	E.0	.00	.00	.00	.00	.00	.00	.00	.00	.0	.01

DATE	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP. 07...	.00	.00	.00	.00	.00	.00	.00	.00	.00	E.0	.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)
SEP. 07...	.0	E5.0	6.3	.8	18	.4	.0	.0

DATE	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
SEP. 07...	.0	.0	.0	.00	.0	.0	.0	E20

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 07...	1.4	4.1	<.1	<.4	4.7	3.8	<.4	<.4

CONEWANGO CREEK BASIN

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.

LOCATION.--Lat 42°10'15", long 79°04'10", Chautauqua County, at gaging station 300 ft downstream from bridge on State Highway 17, in Waterboro, 0.2 mile downstream from Davis Brook, and 1.9 miles northeast of Kennedy.

DRAINAGE AREA.--290 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT. 20...	1500	42	5.1	30	0	46	7.5	4.8	1.8	145	0	119
NOV. 18...	1500	195	4.3	60	10	33	5.6	3.8	1.6	86	0	71
DEC. 20...	1530	624	4.4	70	0	28	4.9	3.2	1.5	69	0	57
JAN. 24...	1530	1100	3.8	30	30	20	3.5	2.9	1.1	50	0	41
FEB. 17...	1430	341	5.5	140	130	30	5.2	4.5	1.2	82	0	67
MAR. 22...	1600	1990	2.9	580	0	13	3.0	1.9	1.1	32	0	26
APR. 20...	1710	1450	2.7	50	0	22	3.2	3.0	1.3	56	0	46
MAY 17...	1430	664	3.1	60	0	25	3.8	3.3	1.1	72	0	59
JUNE 25...	1600	3750	3.5	--	--	14	2.5	1.5	1.8	36	0	30
JULY 25...	1600	159	6.1	200	20	46	7.4	4.4	1.4	144	0	118
AUG. 22...	1600	65	4.5	50	20	49	8.3	7.9	1.8	157	0	129
SEP. 19...	1600	126	5.5	130	0	38	5.9	4.6	1.8	109	0	89

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT. 20...	27	6.7	.1	.24	.61	.003	.08	.29	.060	172	7	150
NOV. 18...	33	6.5	.0	.64	1.0	.012	.03	.40	.030	133	9	110
DEC. 20...	30	5.4	.0	.69	1.6	.014	.22	.73	.030	116	7	90
JAN. 24...	20	5.1	.0	.44	1.5	.007	.49	.64	.035	85	24	64
FEB. 17...	25	8.8	.1	.28	1.3	.055	.10	.91	.024	125	6	96
MAR. 22...	19	4.5	.0	.82	1.6	.010	.19	.64	.29	65	290	45
APR. 20...	18	4.6	.0	.40	1.3	.005	.37	.56	.050	86	42	68
MAY 17...	19	4.3	.0	3.2	3.7	.005	.05	.50	.048	101	33	78
JUNE 25...	17	2.7	.1	--	--	--	--	.08	--	61	--	45
JULY 25...	25	5.5	.1	.46	1.3	.041	.12	.76	.079	171	30	150
AUG. 22...	29	8.9	.1	.48	1.2	.014	.25	.54	.070	190	20	160
SEP. 19...	26	7.5	.1	.43	1.0	.029	.07	.50	.081	146	16	120

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 20...	27	300	7.7	13.0	7.6	72	8	.03	--	--	--	--
NOV. 18...	35	227	7.6	8.5	8.2	69	8	.03	5	0	2	<.5
DEC. 20...	33	194	7.2	2.0	9.0	73	10	.04	--	--	--	--
JAN. 24...	23	146	7.3	1.0	9.4	69	12	.02	--	--	--	--
FEB. 17...	29	212	7.5	.0	11.2	78	8	.04	--	--	--	--
MAR. 22...	19	100	7.2	.5	10.8	76	17	.02	1	30	6	<.5
APR. 20...	22	151	7.1	11.0	8.5	80	11	.03	--	--	--	--
MAY 17...	19	172	7.4	9.5	10.2	90	14	.02	--	--	--	--
JUNE 25...	16	105	6.8	17.0	--	--	--	--	--	--	--	--
JULY 25...	27	299	7.7	24.0	5.6	68	15	.02	--	--	--	--
AUG. 22...	28	332	8.2	23.0	6.6	76	8	.02	--	--	--	--
SEP. 19...	30	248	8.0	19.0	6.0	65	12	.02	--	--	--	--

STREAMS TRIBUTARY TO LAKE ERIE

04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.

LOCATION.--Lat 42°51'16", long 78°45'22", Erie County, at gaging station in Gardenville, 300 ft downstream from bridge on Union Road, and 2 miles upstream from Cayuga Creek.

DRAINAGE AREA.--144 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, July 1966 to September 1972.
Water temperatures: October 1961 to September 1962.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 21...	0900	13	.2	10	0	56	16	12	2.7	196	0	161
NOV. 19...	0945	30	.2	20	10	58	13	15	3.2	168	0	138
DEC. 21...	0930	355	4.7	40	0	55	9.4	18	3.1	127	0	104
JAN. 25...	0930	594	5.1	80	40	46	8.0	19	2.9	109	0	89
FEB. 18...	0830	180	5.2	50	0	53	8.8	23	2.6	130	0	107
MAR. 23...	0930	757	4.2	430	0	31	5.2	7.7	2.1	79	0	65
APR. 21...	0835	450	4.0	50	0	37	6.5	9.1	2.2	98	0	80
MAY 17...	1800	303	2.5	180	0	38	6.4	5.1	2.4	109	0	89
JUNE 25...	1830	476	5.4	--	--	46	7.7	7.8	2.2	123	0	101
JULY 25...	1930	33	3.6	20	0	49	13	10	2.7	147	4	127
AUG. 22...	1900	21	1.1	20	0	39	12	10	2.3	96	3	84
SEP. 19...	1900	26	1.9	10	0	49	11	9.7	2.8	133	7	121

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 21...	46	19	.1	.16	.21	.002	.05	.00	.000	249	0	210
NOV. 19...	57	25	.1	.46	.51	.004	.04	.01	.010	255	5	200
DEC. 21...	60	28	.1	.42	1.3	.004	.21	.73	.060	245	26	180
JAN. 25...	53	35	.1	.66	1.5	.018	.11	.80	.085	227	81	150
FEB. 18...	55	42	.1	.46	1.4	.015	.11	.90	.016	258	3	170
MAR. 23...	35	13	.0	.58	1.7	.017	.24	.88	.12	142	94	99
APR. 21...	35	14	.1	.50	1.3	.003	.05	.75	.075	160	51	120
MAY 17...	27	8.7	.1	2.9	3.9	.006	.06	.94	.22	151	304	120
JUNE 25...	41	13	.1	--	--	--	--	1.2	--	189	--	150
JULY 25...	46	17	.1	.41	.79	.009	.09	.29	.012	220	4	180
AUG. 22...	45	20	.1	.36	.42	.009	.06	.00	.011	180	8	150
SEP. 19...	46	17	.1	.33	.47	.008	.12	.02	.005	211	0	170

STREAMS TRIBUTARY TO LAKE ERIE

04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 21...	45	435	8.1	10.0	10.0	89	6	.03	--	--	--	--
NOV. 19...	61	440	8.1	11.5	9.0	83	7	.03	5	0	3	<.5
DEC. 21...	72	412	7.8	1.0	11.6	84	12	.04	--	--	--	--
JAN. 25...	58	383	7.8	.0	11.2	78	21	.05	--	--	--	--
FEB. 18...	62	447	7.8	.0	12.4	86	13	.05	--	--	--	--
MAR. 23...	34	237	7.7	.0	12.0	83	17	.03	6	10	3	<.5
APR. 21...	39	271	7.7	5.0	11.7	97	34	.04	--	--	--	--
MAY 17...	32	255	7.6	15.0	8.6	86	25	.02	--	--	--	--
JUNE 25...	46	325	7.7	17.0	--	--	--	--	--	--	--	--
JULY 25...	49	380	8.6	26.0	7.7	95	8	.02	--	--	--	--
AUG. 22...	63	312	8.5	25.0	7.9	97	8	.03	--	--	--	--
SEP. 19...	47	350	8.8	19.0	9.4	102	10	.05	--	--	--	--

04219765 EIGHTEENMILE CREEK NEAR NEWFANE, N.Y.

LOCATION.--Lat 43°15'09", long 78°41'52", Niagara County, at bridge on Jacques Road, 0.2 mile upstream from unnamed tributary, and 2.5 miles south of Newfane.

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1972.

CHEMICAL ANALYSES, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
AUG., 1971									
04...	1330	--	--	126	0	103	45	60	--
OCT.									
05...	1130	--	--	94	0	77	46	69	--
DEC.									
07...	1130	--	67	140	0	115	86	73	--
FEB., 1972									
07...	1230	--	90	202	0	166	100	110	--
APR.									
03...	1100	--	48	132	0	108	60	35	--
JUNE									
06...	1100	--	--	131	0	107	72	96	--
SEP.									
06...	1200	2.3	61	126	0	103	--	--	.7

DATE	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
AUG., 1971									
04...	.83	--	--	--	--	.56	35	420	7.6
OCT.									
05...	1.0	4.9	.110	1.1	2.7	.30	36	470	7.9
DEC.									
07...	4.6	6.5	.046	.95	.99	.60	104	720	7.1
FEB., 1972									
07...	2.0	4.9	.066	1.4	1.5	.68	23	970	7.7
APR.									
03...	.79	1.9	.018	.39	.80	.17	33	520	7.4
JUNE									
06...	1.1	3.2	.074	.08	2.0	.43	25	660	7.2
SEP.									
06...	--	--	--	--	.60	.32	12	630	6.8

DATE	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
AUG., 1971					
04...	22.0	2.1	--	22	--
OCT.					
05...	20.0	1.4	15	27	.07
DEC.					
07...	5.0	9.2	73	30	--
FEB., 1972					
07...	.0	9.6	67	42	--
APR.					
03...	2.0	10.2	74	23	--
JUNE					
06...	18.0	2.4	23	33	--
SEP.					
06...	21.0	.4	4	--	.14

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
AUG., 1971											
04...	--	--	--	--	--	--	<.5	--	--	--	--
SEP., 1972											
06...	4	1	50	710	170	100	<.5	26	1	.3	240

04219765 EIGHTEENMILE CREEK NEAR NEWFANE, N.Y.--Continued

CHEMICAL ANALYSES, AUGUST 1971 TO SEPTEMBER 1972

SPECTROGRAPHIC ANALYSES

DATE	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
AUG., 1971 04...	28	38	<2	<4	77	<60	3	<3	10	<2	<6	67

DATE	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)	DIS- SOLVED TI- TANIUM (TI) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)
AUG., 1971 04...	<5	30	75	7	13	0	290	<6	<4	<4.0	<250	<12

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	METH- OXY- CHLOR (UG/L)	TOX- APHENE (UG/L)
AUG., 1971 04...	--	.0	.00	.00	.00	.00	.00	--	.00	--	.00	.0
SEP., 1972 06...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	--	.0

DATE	DI- AZINON (UG/L)	ETHION (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	METHYL TRI- THION (UG/L)	PARA- THION (UG/L)	TRI- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG., 1971 04...	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	7.0
SEP., 1972 06...	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.2	3.0

DATE	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)
SEP., 1972 06...	.0	.0	72	21	6.1	54	.0	.0

DATE	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON IN BOTTOM DE- POSITS (UG/KG)	MALA- THION IN BOTTOM DE- POSITS (UG/KG)	METHYL PARA- THION IN BOT- TOM DE- POSITS (UG/KG)	PARA- THION IN BOTTOM DE- POSITS (UG/KG)	PCB IN BOTTOM DE- POSITS (UG/KG)
SEP., 1972 06...	.0	.0	.0	.00	.0	.0	.0	800

RADIOCHEMICAL ANALYSES

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG., 1971 04...	1.9	5.8	.2	.7	7.5	6.0	1.6	1.5
SEP., 1972 06...	2.5	7.4	.3	.8	16	12	1.2	1.1

04219915 JOHNSON CREEK AT KUCKVILLE, N.Y.

LOCATION.--Lat 43°21'38", long 78°15'54", Orleans County, at bridge on State Highway 18 (Roosevelt Highway) in Kuckville and 1.5 miles upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: July 1971 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JUNE 06...	1230	201	0	165	71	52	.84	2.1	.005	.07	1.2	.18
JULY 03...	1100	151	0	124	64	24	1.2	3.3	.012	.13	2.0	.16
AUG. 09...	1200	144	0	118	55	33	.68	1.4	.023	.11	.60	.16
SEP. 06...	1400	135	0	111	--	--	--	--	--	--	.50	.29

DATE	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JUNE 06...	.14	396	27	424	640	7.2	18.0	7	5.4	28	2.3	--
JULY 03...	.14	313	21	340	720	7.3	22.0	10	5.4	28	--	.06
AUG. 09...	--	291	10	297	700	7.4	21.0	7	6.2	10	1.3	.03
SEP. 06...	--	--	--	--	450	8.0	20.0	4	4.1	--	--	.04

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
SEP. 06...	.8	54	.2	.73	62	1000	.01	11	18

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
SEP. 06...	0	0	120	1	30	<.5	3	.2	20

04219915 JOHNSON CREEK AT KUCKVILLE, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	METH-OXY-CHLOR (UG/L)	TOX-APHENE (UG/L)
JUNE 06...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
JULY 03...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG. 09...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
SEP. 06...	.00	E.0	.00	.00	.00	.00	.00	.00	.00	.00	--	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE 06...	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0	5.0
JULY 03...	.00	.00	.00	.00	.00	.00	.00	--	--	--	<.1	13
AUG. 09...	.00	.00	.00	.00	.00	.00	.00	.07	.00	.01	.0	3.0
SEP. 06...	.00	.00	.00	.00	.00	.00	.00	.06	.00	.01	E.0	1.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)
SEP. 06...	.0	E.0	9.8	5.7	2.6	.9	.0	.0

DATE	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
SEP. 06...	.0	.0	.0	.00	.0	.0	.0	E8.0

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 06...	1.9	5.6	<.1	<.4	6.9	5.8	.6	.5

04231000 BLACK CREEK AT CHURCHVILLE, N.Y.

LOCATION.--Lat 43°06'02", long 77°52'57", Monroe County, at gaging station at east end of Carrol Street in Churchville, 100 ft downstream from main-line tracks of Penn Central Transportation Co., and 0.3 mile downstream from Black Creek Dam.

DRAINAGE AREA.--123 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, August 1966 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 21...	1200	9.8	3.0	0	0	190	40	24	3.6	242	0	198
NOV. 19...	1300	26	4.2	20	0	219	31	23	3.4	286	0	235
DEC. 21...	1200	113	8.2	30	0	140	32	26	3.7	282	0	231
JAN. 25...	1230	268	7.2	40	0	106	23	19	2.6	224	0	184
FEB. 18...	1130	173	6.8	40	30	102	23	23	4.5	202	0	166
MAR. 23...	1300	1160	4.0	160	0	56	12	12	2.8	145	0	119
APR. 21...	1310	672	1.2	20	10	91	18	15	2.7	212	0	174
MAY 18...	1030	258	3.1	30	0	112	20	18	2.8	252	0	207
JULY 26...	1300	24	9.0	20	20	150	33	24	2.7	285	0	234
AUG. 23...	1230	17	5.3	10	0	170	35	25	2.8	238	2	199
SEP. 20...	1300	14	4.9	10	0	210	44	27	3.2	204	0	167

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 21...	390	52	.5	.42	1.0	.073	.05	.53	.060	825	6	640
NOV. 19...	400	51	.4	.29	.74	.053	.05	.35	.030	875	5	670
DEC. 21...	190	56	.2	.68	2.2	.033	.15	1.4	.040	602	7	480
JAN. 25...	140	39	.2	.50	2.0	.010	.15	1.3	.040	454	9	360
FEB. 18...	160	48	.3	.85	2.7	.209	.19	1.5	.081	476	5	350
MAR. 23...	62	22	.1	.68	1.7	.019	.17	.83	.068	247	22	190
APR. 21...	120	30	.2	.44	1.0	.006	.05	.59	.023	385	18	300
MAY 18...	150	32	.2	2.1	2.7	.005	.04	.65	.045	467	9	360
JULY 26...	220	49	.5	.74	2.0	.235	.10	1.0	.092	634	3	510
AUG. 23...	330	55	.3	.60	1.1	.026	.15	.42	.066	745	4	570
SEP. 20...	450	64	.4	.85	1.9	.057	.45	.60	.081	908	0	710

04231000 BLACK CREEK AT CHURCHVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.												
21...	440	1200	8.0	14.0	9.8	96	13	.05	--	--	--	--
NOV.												
19...	440	1260	8.1	9.0	10.8	93	12	.04	7	30	8	<.5
DEC.												
21...	250	915	7.8	1.5	9.4	68	22	.07	--	--	--	--
JAN.												
25...	180	727	7.9	.0	9.6	66	15	.05	--	--	--	--
FEB.												
18...	180	739	7.6	.0	8.4	58	22	.07	--	--	--	--
MAR.												
23...	70	416	7.7	.0	10.8	75	21	.04	1	10	2	<.5
APR.												
21...	130	633	8.0	8.5	10.9	97	23	.06	--	--	--	--
MAY												
18...	160	742	7.8	16.0	8.0	82	21	.03	--	--	--	--
JULY												
26...	280	1000	8.2	24.0	8.3	99	18	.04	--	--	--	--
AUG.												
23...	370	1100	8.4	24.0	8.2	98	13	.05	--	--	--	--
SEP.												
20...	540	1230	8.3	19.0	7.8	85	10	.06	--	--	--	--

04232000 GENESEE RIVER AT ROCHESTER, N.Y.

LOCATION (revised).--Lat 43°10'50", long 77°37'40", Monroe County, at gaging station on right bank, 40 ft downstream from plant 5 of Rochester Gas and Electric Corporation in Rochester, 100 ft upstream from bridge on Driving Park Avenue and 6.1 miles upstream from mouth.

DRAINAGE AREA.--2,457 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1955.
Water temperatures: October 1954 to September 1972. Prior to October 1967, published as "at Driving Park Avenue".

EXTREMES.--1971-72:
Water temperatures: Maximum, 25.0°C Aug. 24-26, Sept. 1; minimum, 0.5°C on many days January to March.

Period of record:
Water temperatures: Maximum, 30.5°C Aug. 18, 1965; minimum, (1954-64, 1966-72) freezing point on many days during most years.

COOPERATION.--Water temperature records furnished by the Rochester Gas and Electric Corporation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
DEC. 13...	1530	E2280	4.3	510	0	59	12	40	3.5	122	0	100
MAY 19...	1200	8700	3.6	--	--	45	9.0	19	1.9	114	0	94

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
DEC. 13...	80	59	.2	.70	1.9	.073	.32	.81	.17	323	103
MAY 19...	49	31	.1	--	--	--	--	.60	--	217	--

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
DEC. 13...	200	97	558	7.6	--	7	.05	1	0	8	<.5
MAY 19...	150	56	384	7.8	19.0	--	--	--	--	--	--

04232000 GENESSEE RIVER AT ROCHESTER, N.Y.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1971 TO SEPTEMBER 1972

(ONCE DAILY MEASUREMENT AT 1030)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	15.5	4.5	1.5	2.0	1.0	3.0	9.0	19.0	16.5	23.5	25.0
2	19.5	16.0	4.5	1.5	1.5	1.0	3.0	11.0	18.0	18.0	23.0	24.5
3	20.0	15.5	4.5	2.0	2.0	1.0	3.0	13.5	18.5	18.0	23.5	24.0
4	21.0	14.5	4.0	2.0	1.5	1.0	3.5	13.0	18.5	16.0	21.5	23.5
5	20.0	13.5	4.5	3.5	1.5	0.5	3.0	13.0	19.5	16.5	22.0	22.0
6	19.5	13.0	4.5	1.5	1.5	1.0	3.0	12.0	20.0	16.0	23.0	21.5
7	18.5	11.5	4.0	1.5	1.5	3.0	2.0	12.0	20.0	16.0	23.0	22.0
8	18.0	11.0	4.0	1.5	1.5	1.0	3.0	12.0	20.5	16.5	22.0	23.5
9	18.5	10.5	4.5	2.0	1.5	0.5	2.0	11.0	20.0	16.5	21.0	22.0
10	18.5	9.5	4.5	2.0	1.5	0.5	4.0	9.5	19.5	17.0	19.5	22.0
11	---	9.5	5.0	3.0	1.0	0.5	4.5	10.5	18.5	18.0	19.5	22.0
12	16.5	9.5	4.5	3.0	1.0	1.0	6.0	11.5	18.5	18.5	20.0	21.5
13	15.5	10.0	4.5	3.0	1.5	0.5	8.0	12.0	18.0	19.0	20.0	21.5
14	16.5	9.5	4.0	1.5	1.5	0.5	8.0	13.0	18.5	18.5	20.0	21.5
15	17.0	10.0	4.5	1.0	3.0	0.5	9.0	13.0	20.0	19.0	20.5	20.5
16	17.0	8.5	5.5	0.5	3.0	0.5	9.0	13.5	19.5	19.0	21.0	20.5
17	16.5	9.0	5.5	0.5	1.5	0.5	9.5	14.0	19.5	19.0	21.0	21.0
18	17.0	9.0	5.0	1.5	2.0	0.5	9.5	14.5	20.0	19.5	21.5	20.5
19	17.0	10.0	4.5	1.5	1.5	0.5	11.0	15.5	20.0	19.5	21.5	20.5
20	17.0	9.5	4.5	1.5	1.0	1.0	10.0	16.0	21.5	19.5	21.5	20.0
21	17.0	9.0	4.5	1.0	1.0	1.0	8.5	16.0	22.0	19.5	21.5	19.5
22	17.0	6.5	3.5	1.5	1.0	1.0	8.0	18.0	21.0	19.5	23.0	19.0
23	16.5	5.5	2.0	1.0	1.0	1.0	8.0	18.5	21.5	20.0	24.0	19.0
24	16.5	7.0	2.0	1.5	1.0	0.5	8.5	19.5	20.0	20.5	25.0	18.5
25	16.5	6.5	2.0	1.5	1.0	0.5	8.5	19.5	18.5	23.5	25.0	18.5
26	16.0	6.0	3.0	1.0	0.5	0.5	9.0	19.5	16.0	22.0	25.0	20.0
27	16.0	5.5	3.0	1.5	0.5	0.5	8.5	19.5	16.0	21.5	23.5	20.0
28	15.5	5.5	3.5	1.5	1.0	2.0	8.5	19.0	16.5	22.0	23.5	19.5
29	16.0	6.0	3.5	1.0	0.5	3.0	8.5	19.5	17.0	22.0	23.0	19.0
30	15.5	5.5	3.5	1.0	---	3.0	9.0	20.0	16.5	23.5	23.0	18.5
31	15.5	---	1.5	1.0	---	2.0	---	19.5	---	23.5	24.5	---
AVERAGE	17.5	9.5	4.0	1.5	1.5	1.0	6.5	14.5	19.0	19.0	22.0	21.0

04235505 OWASCO OUTLET BELOW AUBURN, N.Y.

LOCATION.--Lat 42°58'02", long 76°35'58", Cayuga County, at bridge on Division Street Road, 1.0 mile north of Auburn city line and 2.0 miles downstream from gaging station (04235500).

DRAINAGE AREA.--206 sq mi at gage.

PERIOD OF RECORD.--Chemical analyses: August 1970 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
NOV., 1971										
01...	1430	58	--	44	132	0	108	29	17	--
FEB., 1972										
08...	1430	500	--	43	140	0	115	26	11	--
MAY										
01...	1400	640	--	43	130	4	113	26	10	--
SEP.										
11...	1000	190	1.2	43	138	0	113	--	--	.6

DATE	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
NOV., 1971									
01...	.92	4.7	.270	2.8	.80	.86	6	390	7.5
FEB., 1972									
08...	.75	2.5	.097	.27	1.4	.23	14	360	8.0
MAY									
01...	1.1	2.2	.014	.15	1.0	.21	5	343	8.3
SEP.									
11...	--	--	--	--	.80	.18	9	310	7.6

DATE	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV., 1971									
01...	16.0	4.8	49	14	--	--	--	--	--
FEB., 1972									
08...	.0	10.4	72	12	--	--	--	--	--
MAY									
01...	7.5	10.2	86	12	--	--	--	--	--
SEP.									
11...	21.0	7.9	89	--	.03	2	0	5	<.5

PESTICIDE ANALYSIS

DATE	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP.											
11...	.00	.00	.00	.00	.00	.00	.01	.00	.00	E.0	1.0

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOXAPHENE (UG/L)	DIAZINON (UG/L)
SEP.												
11...	.00	E.0	.00	.00	.00	.00	.00	.00	.00	.00	.0	.00

04235505 OWASCO OUTLET BELOW AUBURN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PESTICIDE ANALYSIS

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)
SEP. 11...	.0	E30	54	2.4	13	8.5	.0	.0

DATE	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
SEP. 11...	.0	.0	.0	.00	.0	.0	.0	E60

RADIOCHEMICAL ANALYSIS

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (PC/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (PC/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 11...	<.7	<2.0	<.1	<.4	3.3	2.6	.8	.7

04237500 SENECA RIVER AT BALDWINSVILLE, N.Y.

LOCATION.--Lat 43°09'26", long 76°19'55", Onondaga County, at Erie (Barge) Canal lock 24 in Baldwinsville, 350 ft upstream from gaging station.

DRAINAGE AREA.--3,136 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1958.
Water temperatures: October 1957 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 25.5°C July 22-25; minimum, freezing point on many days during winter period.
Period of record:
Water temperatures: Maximum, 28.0°C July 24, 1964; minimum, freezing point on many days during winter periods.

REMARKS.--Stream frozen Jan. 7-10, 17-21, 26-28, 31 to Mar. 19. No records on weekends December to April.

COOPERATION.--Water temperature record furnished by the New York State Department of Transportation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 19[illegible]

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
DEC.												
01...	1545	E2640	--	--	--	--	--	--	--	--	--	--
MAR.												
29...	1545	E9460	--	--	--	--	--	--	--	--	--	--
APR.												
26...	1530	9420	--	--	--	--	--	--	--	--	--	--
JUNE												
24...	1700	13000	3.3	54	12	31	2.4	148	0	121	52	50
25...	1000	15300	3.3	53	11	31	2.7	145	0	119	50	51
AUG.												
16...	1600	E5280	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
DEC.												
01...	--	--	--	--	--	--	--	--	7	20	2	<.5
MAR.												
29...	--	--	--	--	--	--	--	--	0	0	0	<.5
APR.												
26...	--	--	--	--	--	--	--	--	8	20	2	<.5
JUNE												
24...	.3	1.5	284	180	63	503	7.7	17.5	--	--	--	--
25...	.2	1.5	280	180	59	--	8.2	16.0	--	--	--	--
AUG.												
16...	--	--	--	--	--	--	--	--	8	0	2	<.5

04237500 SENECA RIVER AT BALDWINSVILLE, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	15.0	4.5	---	0.0	0.0	---	8.5	17.0	19.0	22.0	25.0
2	18.0	14.5	3.5	---	0.0	0.0	---	9.0	17.0	20.0	22.0	24.0
3	19.5	14.0	3.5	1.5	0.0	0.0	4.5	9.5	18.0	20.0	22.0	25.0
4	19.5	14.0	4.5	1.5	0.0	---	5.5	10.5	19.0	20.0	21.5	23.5
5	19.0	11.0	3.5	1.0	---	---	4.5	11.5	19.5	19.5	21.0	21.5
6	18.5	9.5	3.0	1.0	---	---	3.5	10.0	19.5	19.5	22.0	21.0
7	18.0	9.0	3.5	---	0.0	---	3.5	11.5	19.5	19.5	22.0	20.0
8	16.5	10.5	3.0	---	0.0	0.0	---	11.5	20.0	20.0	21.0	21.0
9	17.0	9.5	3.5	---	0.0	0.0	---	11.5	20.0	20.5	21.0	22.0
10	16.0	9.5	3.5	---	0.0	0.0	4.0	11.0	19.5	20.5	20.0	21.0
11	15.5	9.0	---	2.0	---	---	4.5	10.5	18.5	20.5	19.5	20.5
12	14.5	8.5	---	1.5	---	---	5.0	11.0	17.0	20.5	21.0	20.5
13	13.5	9.5	4.0	2.0	---	0.0	6.0	13.0	17.0	21.0	20.0	20.5
14	14.0	8.5	4.0	2.0	0.0	0.0	6.5	14.5	18.0	21.0	21.0	20.5
15	14.0	8.0	4.5	---	0.0	0.0	---	13.5	18.5	23.5	20.0	19.5
16	15.0	8.0	4.5	---	0.0	0.0	---	13.5	18.5	23.5	20.0	20.0
17	15.0	7.0	5.0	0.0	0.0	0.0	8.0	14.0	19.0	23.5	20.0	20.0
18	15.0	7.0	---	0.0	0.0	0.0	8.5	14.5	19.5	24.0	20.0	20.0
19	15.0	8.0	---	0.0	---	0.0	9.5	15.5	20.0	24.0	20.0	19.5
20	15.0	8.5	3.0	0.0	---	1.0	9.5	16.5	20.0	24.5	21.0	19.5
21	15.0	8.0	3.5	0.0	---	1.5	9.0	16.5	20.0	24.5	21.0	19.5
22	15.0	6.5	1.0	---	0.0	3.0	---	17.0	20.0	25.5	22.0	19.5
23	16.5	5.5	0.5	---	0.0	2.0	---	17.0	20.0	25.5	23.0	19.0
24	15.5	5.5	---	2.0	0.0	2.0	8.0	18.5	18.5	25.5	23.0	18.0
25	15.0	5.0	---	2.0	0.0	---	8.5	18.0	18.0	25.5	23.5	18.0
26	14.5	5.0	---	0.0	---	---	8.5	18.0	17.0	24.5	24.5	18.0
27	14.5	5.5	3.0	0.0	---	1.5	9.0	18.0	18.0	24.0	25.0	18.0
28	15.0	6.0	3.0	0.0	0.0	3.0	9.0	18.5	18.0	---	24.0	17.0
29	14.5	6.0	2.0	0.0	0.0	3.5	9.0	18.5	18.0	23.0	23.5	18.5
30	14.5	5.5	3.0	0.0	---	4.0	---	18.5	19.0	23.0	23.5	18.5
31	15.0	---	---	0.0	---	4.0	---	18.5	---	22.0	24.0	---
AVERAGE	16.0	8.5	---	---	---	---	---	14.0	18.5	22.0	22.0	20.5

04250504 SALMON RIVER BELOW PULASKI, N.Y.

LOCATION.--Lat 43°34'11", long 76°11'15", Oswego County, at bridge on State Highway 3, at Port Ontario, 0.4 mile upstream from mouth, and 2.1 miles west of Pulaski.

PERIOD OF RECORD.--Chemical analyses: July 1971 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JUNE 09...	1300	36	0	30	8.3	3.4	.61	1.1	.008	.24	.30	.036
JULY 17...	0830	53	0	43	10	2.5	.38	.73	.014	.14	.20	.020
SEP. 11...	1500	42	0	34	--	--	--	--	--	--	.20	.016

DATE	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JUNE 09...	.008	64	10	80	58	8.2	16.5	2	11.7	23	--	--
JULY 17...	.017	67	2	70	102	8.2	19.0	2	5.6	17	2.4	--
SEP. 11...	--	--	1	--	208	6.8	17.0	2	6.3	--	--	.02

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
SEP. 11...	3.1	12	.0	.31	59	E1	810	.01	19	8

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
SEP. 11...	0	0	110	2	50	<.5	1	2	10

04250504 SALMON RIVER BELOW PULASKI, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	METH-OXY-CHLOR (UG/L)	TOX-APHENE (UG/L)
JUNE 09...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
JULY 17...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
SEP. 11...	.00	E.0	.00	.00	.00	.00	.00	.00	.00	.00	--	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE 09...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	<.1	7.0
JULY 17...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0	4.0
SEP. 11...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	E.0	3.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)
SEP. 11...	.0	E.0	.1	.5	<.1	.0	.0	.0

DATE	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
SEP. 11...	.0	.0	.0	.00	.0	.0	.0	<5.0

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 11...	<.2	<.7	<.1	<.4	3.6	2.9	<.4	<.4

04250997 BLACK RIVER (FORESTPORT RESERVOIR) AT FORESTPORT, N.Y.

LOCATION.--Lat 43°26'20", long 75°12'17", Oneida County, at bridge on State Highway 28 and 365, in Forestport, 0.1 mile upstream from outlet of Alder Pond and 0.4 mile downstream from Woodhull Creek.

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1972.

CHEMICAL ANALYSES, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
AUG., 1971									
18...	0900	196	--	--	16	0	13	7.4	.8
OCT.									
19...	1430	387	--	4.5	6	0	5	7.6	1.0
DEC.									
15...	1000	897	--	5.1	11	0	9	8.3	1.0
FEB., 1972									
14...	1015	1230	--	6.8	17	0	14	8.0	.7
MAY									
02...	1100	4500	--	--	6	0	5	7.0	.5
JUNE									
08...	1000	620	-	--	13	0	11	7.5	.7
SEP.									
12...	0900	247	6.8	8.0	22	0	18	--	--

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
AUG., 1971									
18...	--	.24	--	--	--	--	.010	12	44
OCT.									
19...	--	.30	.55	.000	.15	.10	.010	5	46
DEC.									
15...	--	.15	.62	.002	.07	.40	.040	3	41
FEB., 1972									
14...	--	.43	1.0	.005	.10	.50	.005	1	30
MAY									
02...	--	.62	1.2	.003	.01	.60	.014	4	--
JUNE									
08...	--	.32	.60	.005	.08	.20	.010	5	--
SEP.									
12...	.1	--	--	--	--	.20	.009	2	50

DATE	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
AUG., 1971					
18...	7.0	23.0	9.4	21	.04
OCT.					
19...	5.5	13.5	10.4	19	.03
DEC.					
15...	7.0	1.5	12.0	13	--
FEB., 1972					
14...	--	2.0	--	11	--
MAY					
02...	5.9	6.0	12.8	13	--
JUNE					
08...	7.2	16.0	9.5	17	--
SEP.					
12...	5.8	16.0	7.0	--	.02

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
AUG., 1971											
18...	--	--	--	--	--	--	<.5	--	--	--	--
SEP., 1972											
12...	10	0	0	450	2	30	<.5	1	8	.8	10

04250997 BLACK RIVER (FORESTPORT RESERVOIR) AT FORESTPORT, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SPECTROGRAPHIC ANALYSES

DATE	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
AUG., 1971												
19...	11	0	0	6	<3	0	0	2	0	0	240	1

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
AUG., 1971											
19...	<10	45	0	2	0	15	0	2	<.3	<60	0

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	METH-OXY-CHLOR (UG/L)	TOX-APHENE (UG/L)
AUG., 1971												
18...	—	.0	.00	.00	.00	.00	.00	—	.00	—	.00	.0
SEP., 1972												
12...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	—	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG., 1971												
18...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	—	5.0
SEP., 1972												
12...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)
SEP.								
12...	.0	.0	.0	.0	.0	.0	.0	.0

DATE	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
SEP.								
12...	.0	.0	.0	.00	.0	.0	.0	.0

RADIOCHEMICAL ANALYSES

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG., 1971								
19...	.3	.8	.3	.9	4.4	3.6	1.7	1.6
SEP., 1972								
12...	.3	1.0	.1	.4	1.3	1.8	.7	.6

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, N.Y.

LOCATION.--Lat 43°44'50", long 75°20'05", Lewis County, temperature recorder at gaging station on right bank at downstream side of highway bridge on Donnattsburg Road in Donnattsburg, 1.2 miles downstream from Chase Lake Outlet, 4.2 miles northeast of Glenfield, and 5.0 miles upstream from mouth.

DRAINAGE AREA.--91.7 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1959 to September 1961, October 1963 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 26.0°C July 18; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum (1959-61, 1963-69, 71-72), 26.5°C July 24, 1961; minimum, freezing point on many days during winter periods.

REMARKS.--No records available Oct. 1-6.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 to SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
APR. 21...	1155	1230	4.5	13	.5	.6	.4	35	0	29

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
APR. 21...	8.0	.3	.1	.70	.000	35	6	82	6.8	.0

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	9.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	---	---	10.0	7.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	---	---	9.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	---	---	8.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	---	---	3.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	---	---	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	9.5	9.5	4.5	2.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
8	10.0	8.5	2.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
9	9.5	9.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
10	10.0	9.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
11	10.0	8.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.0	0.0
12	8.5	8.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
13	8.5	7.0	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	11.0	8.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	11.0	9.0	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	10.5	9.0	2.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
17	10.5	10.0	2.0	1.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
18	10.5	9.0	4.0	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
19	10.0	8.0	4.5	4.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
20	10.5	9.0	4.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	10.0	8.0	3.5	2.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0
22	10.5	8.5	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	11.0	10.0	1.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0
24	10.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	10.5	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	10.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	11.0	10.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	11.5	10.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	10.5	8.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	9.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0
31	9.0	7.0	---	---	0.0	0.0	0.0	0.0	---	---	0.5	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.0	0.0	8.5	7.0	17.0	14.5	19.0	16.5	20.5	17.0	19.0	16.0
2	1.0	0.0	8.5	8.0	14.5	13.5	19.5	16.5	19.0	16.5	20.0	16.0
3	0.5	0.0	8.5	6.5	16.0	13.0	19.5	16.5	19.0	16.5	18.5	15.5
4	0.0	0.0	6.5	6.0	18.0	16.0	17.0	15.5	19.0	16.0	16.0	14.5
5	0.5	0.0	6.0	5.5	19.0	15.5	16.5	15.0	19.0	14.0	15.5	12.0
6	0.0	0.0	6.5	5.0	18.5	16.5	17.0	15.0	17.0	14.5	16.0	13.5
7	1.0	0.0	8.5	6.5	19.0	15.5	19.0	15.0	18.0	16.0	16.0	11.5
8	1.5	0.0	9.0	8.0	18.0	15.5	19.5	16.5	17.0	16.0	16.0	14.5
9	3.5	0.0	9.5	8.5	18.0	15.0	20.5	16.0	16.0	15.0	15.5	14.0
10	3.5	0.0	11.0	8.5	17.0	12.0	20.5	18.5	16.0	14.0	14.5	11.0
11	2.0	0.5	10.0	8.5	14.5	10.5	21.5	17.0	16.5	13.0	15.5	12.0
12	4.0	0.0	11.5	8.0	14.0	12.0	22.0	19.0	16.0	15.0	15.5	14.0
13	4.0	0.5	14.0	9.5	15.0	12.0	21.5	20.5	18.0	14.5	15.0	13.5
14	0.5	0.0	13.5	12.0	19.0	15.0	21.0	20.0	16.5	15.0	15.0	14.0
15	0.5	0.0	13.0	11.5	21.0	18.0	23.5	20.0	16.5	13.0	14.5	11.5
16	0.5	0.0	14.0	12.0	20.0	17.0	22.0	21.5	15.5	13.5	15.0	13.0
17	1.5	0.0	15.0	13.0	17.0	15.5	24.0	20.0	15.0	14.0	17.0	14.5
18	1.5	0.0	16.0	13.0	18.5	15.5	26.0	20.5	15.0	14.0	16.5	15.0
19	1.0	0.5	17.0	14.0	19.5	18.0	24.5	22.0	18.5	14.0	16.5	14.0
20	0.5	0.5	16.5	15.5	21.5	18.5	24.5	21.5	18.5	14.0	14.5	11.0
21	3.0	0.0	19.0	15.0	20.5	19.0	23.5	21.5	19.0	14.0	14.5	11.0
22	2.0	0.5	19.5	16.0	20.5	18.5	24.0	20.0	20.0	15.5	14.5	12.0
23	1.5	1.0	19.5	15.5	20.5	17.0	23.0	21.0	20.0	17.0	13.5	10.5
24	2.0	1.0	19.5	16.0	17.0	16.0	23.5	20.5	20.5	18.5	13.0	11.5
25	4.0	1.0	19.5	15.0	16.0	15.5	22.0	20.5	21.5	18.5	15.5	12.0
26	4.0	2.0	19.5	15.0	15.5	15.0	20.5	20.0	21.0	17.0	16.0	15.5
27	5.5	2.0	20.0	15.0	16.0	14.5	20.0	18.0	20.0	18.5	16.0	14.0
28	5.5	3.5	20.5	15.0	18.0	15.0	20.5	18.0	19.5	17.0	13.5	11.0
29	7.0	4.5	21.0	16.0	20.0	16.5	20.5	16.5	20.0	17.0	14.5	12.0
30	8.0	5.5	19.5	16.5	19.5	17.0	20.0	16.5	20.0	16.5	14.5	11.0
31	---	---	18.0	16.5	---	---	20.0	16.0	20.0	15.5	---	---

04257150 BEAVER RIVER AT MOSHIER FALLS, N.Y.

LOCATION.--Lat 43°52'20", long 75°08'10", Herkimer County, at the Niagara Mohawk Moshier Falls Power Station, at mouth of Sunday Creek and 2.2 miles east of Number Four.

DRAINAGE AREA.--184 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1955 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 21.0°C July 20, 22, 31, Aug. 1-3; minimum, 0.5°C on Feb. 1, Mar. 25-26, Apr. 10.

Period of record:
Water temperatures: Maximum, 23.5°C Sept. 10, 1959; minimum, freezing point on Jan. 1, 2, 1969.

COOPERATION.--Water temperature record furnished by the Niagara Mohawk Power Corporation.

REMARKS.--No record available Dec. 29 to Jan. 1, Feb. 4.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT BETWEEN 0900 AND 1300)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	10.0	1.5	---	0.5	1.5	1.5	4.0	13.0	17.0	21.0	20.0
2	16.0	12.0	1.5	1.5	1.0	1.5	1.0	4.5	12.0	18.0	21.0	20.0
3	15.5	11.5	2.0	1.5	1.0	1.5	1.0	5.5	12.0	18.5	21.0	20.0
4	16.5	10.5	2.0	1.5	---	1.5	1.0	5.0	12.0	18.0	20.5	19.5
5	16.5	10.0	1.5	1.0	1.0	1.0	1.0	4.5	13.5	18.0	20.5	19.5
6	16.5	9.5	5.5	1.0	1.0	1.0	1.0	4.0	13.5	18.0	20.5	19.5
7	15.0	8.5	7.0	1.0	1.0	1.0	1.0	4.0	14.0	18.5	20.5	19.5
8	14.0	8.0	3.5	1.5	1.0	1.0	1.0	4.5	14.0	18.5	20.5	19.5
9	13.0	6.0	4.5	1.5	1.5	1.0	1.0	5.5	13.5	19.0	20.0	19.5
10	12.0	6.5	5.5	1.5	1.0	1.0	0.5	5.5	14.0	18.5	20.0	19.0
11	13.0	6.5	6.0	2.0	1.0	1.0	1.0	5.5	13.5	18.5	19.5	19.0
12	13.0	6.5	9.0	1.5	1.5	1.0	1.0	6.0	13.5	19.0	19.5	19.0
13	13.0	6.0	9.0	2.0	1.0	1.0	1.5	6.5	14.0	19.0	19.5	19.0
14	13.0	6.0	9.0	1.5	1.0	1.0	1.0	6.5	14.0	19.0	19.5	18.5
15	13.0	5.0	9.0	1.0	1.5	1.0	1.0	9.0	14.0	19.5	19.5	18.5
16	11.5	5.5	11.5	1.0	1.0	1.0	1.0	8.5	15.0	19.0	19.0	18.5
17	12.0	4.5	10.5	1.0	1.0	1.5	1.5	8.5	15.5	20.0	19.0	18.5
18	12.0	5.5	10.5	0.5	1.0	1.0	1.5	9.5	16.0	20.5	19.0	18.5
19	12.0	5.5	9.5	1.0	1.0	1.0	1.5	10.5	16.0	20.5	19.0	---
20	12.0	4.5	9.5	1.5	1.0	1.0	1.5	10.5	16.5	21.0	18.5	---
21	12.0	5.0	9.5	1.0	1.0	1.5	1.5	10.0	16.5	20.5	19.0	17.0
22	12.0	3.5	8.5	1.0	1.0	1.0	1.5	11.5	16.5	21.0	19.0	17.0
23	12.0	3.0	9.0	1.0	1.0	1.0	1.5	11.0	17.0	20.5	19.0	17.0
24	11.5	2.0	9.0	1.0	1.0	1.0	2.0	11.5	17.0	20.5	19.5	16.5
25	12.0	3.0	8.0	1.0	1.0	0.5	1.5	12.0	17.0	20.5	19.0	16.5
26	13.0	3.0	10.0	1.0	1.0	0.5	3.0	11.5	17.0	20.5	20.0	16.5
27	13.0	4.0	11.0	1.0	1.5	1.0	3.0	12.0	17.0	20.5	19.5	16.5
28	12.0	4.0	10.0	1.0	1.5	1.0	3.0	13.0	17.0	20.5	19.0	16.5
29	12.0	3.0	---	1.0	1.5	1.0	3.5	13.0	18.0	20.5	19.5	16.5
30	10.5	1.5	---	1.0	---	1.0	3.5	13.0	18.0	20.5	19.5	15.5
31	11.0	---	---	1.0	---	1.0	---	13.0	---	21.0	20.0	---

04258710 BLACK RIVER ABOVE CARTHAGE, N.Y.

LOCATION.--Lat 43°56'58", long 75°33'49", Lewis County, 100 feet off State Highway 26A, 1.1 miles downstream from Deer River, and 1.8 miles southeast of Carthage.

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1972.

CHEMICAL ANALYSES, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
AUG., 1971									
17...	1100	--	8.5	23	0	19	14	1.4	--
OCT.									
26...	0950	--	7.3	25	0	21	12	7.5	--
DEC.									
07...	1130	--	10	28	0	23	10	3.1	--
FEB., 1972									
10...	1200	--	9.0	23	0	19	13	1.5	--
APR.									
18...	1100	--	--	30	0	25	10	2.4	--
JUNE									
12...	1100	--	--	18	0	15	9.2	2.2	--
SEP.									
13...	0900	7.5	11	30	0	25	--	--	.1

DATE	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
AUG., 1971									
17...	.28	--	--	--	--	.020	7	69	7.2
OCT.									
26...	.28	.43	.000	.05	.10	.010	7	73	--
DEC.									
07...	.34	.69	.005	.05	.30	.020	0	73	--
FEB., 1972									
10...	.43	1.2	.006	.34	.50	.033	8	58	7.8
APR.									
18...	.33	.98	.005	.05	.60	.038	18	74	--
JUNE									
12...	.60	1.2	.005	.43	.20	.020	6	52	7.9
SEP.									
13...	--	--	--	--	.20	.019	3	85	7.6

DATE	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
AUG., 1971				
17...	25.0	7.8	23	--
OCT.				
26...	12.0	8.6	16	.05
DEC.				
07...	.0	11.2	8	--
FEB., 1972				
10...	.0	13.2	19	--
APR.				
18...	4.0	7.3	12	--
JUNE				
12...	14.5	6.8	17	--
SEP.				
13...	16.5	6.6	--	.02

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
AUG., 1971											
17...	--	--	--	--	--	--	<.5	--	--	--	--
SEP.											
13...	9	0	0	510	3	50	<.5	1	0	.8	0

STREAMS TRIBUTARY TO LAKE ONTARIO

04258710 BLACK RIVER ABOVE CARTHAGE, N.Y.--Continued

CHEMICAL ANALYSES, AUGUST 1971 TO SEPTEMBER 1972

SPECTROGRAPHIC ANALYSES

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BISMUTH (BI) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED GALLIUM (GA) (UG/L)	DISSOLVED GERMANIUM (GE) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG. 17...	64	13	0	0	6	<5	0	0	4	0	0	620

DATE	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED TIN (SN) (UG/L)	DISSOLVED TITANIUM (TI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED ZIRCONIUM (ZR) (UG/L)
AUG. 17...	2	<10	110	0	4	0	23	0	1	.6	<88	0

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	METHOXYCHLOR (UG/L)	TOXAPHENE (UG/L)
AUG., 1971 17...	--	.0	.00	.00	.00	.00	.00	--	.00	--	.00	.0
SEP., 1972 13...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	--	.0

DATE	DIAZINON (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG., 1971 17...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	7.0
SEP., 1972 13...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELORIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)
SEP. 13...	.0	.0	5.0	1.2	1.3	.0	.0	.0

DATE	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
SEP. 13...	.0	.0	.0	.00	.0	.0	.0	5.0

RADIOCHEMICAL ANALYSES

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (PC/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (PC/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 17...	.2	.6	<.1	<.4	6.1	4.9	1.5	1.3
SEP. 13...	.4	1.1	<.1	<.4	3.3	2.6	.7	.6

04258750 BLACK RIVER BELOW CARTHAGE, N.Y.

LOCATION.--Lat 43°59'53", long 75°38'17", Jefferson County, at railroad bridge of Penn-Central Transportation Company, 800 ft west of State Highway 3, 0.8 mile northwest of Carthage, and 2.1 miles downstream from bridge on State Highway 26.

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1972.

CHEMICAL ANALYSES, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
AUG., 1971									
17...	1245	--	9.0	27	0	22	14	1.5	--
OCT.									
26...	1120	--	8.8	29	0	24	12	1.5	--
DEC.									
07...	1240	--	13	36	0	30	14	3.0	--
FEB., 1972									
10...	1245	--	12	30	0	25	14	2.0	--
APR.									
18...	1200	--	--	34	0	28	10	1.5	--
JUNE									
12...	1145	--	--	20	0	16	9.3	1.1	--
SEP.									
13...	1100	7.2	11	34	0	28	--	--	.1

DATE	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
AUG., 1971									
17...	.34	--	--	--	--	.030	4	75	7.2
OCT.									
26...	.31	.61	.000	.20	.10	.040	9	78	--
DEC.									
07...	.42	.87	.006	.14	.31	.020	1	112	--
FEB., 1972									
10...	.99	1.9	.007	.23	.70	.086	62	62	6.9
APR.									
18...	.39	1.1	.005	.05	.70	.047	35	89	--
JUNE									
12...	.58	1.2	.006	.50	.20	.027	8	51	7.9
SEP.									
13...	--	--	--	--	--	.026	--	85	7.5

DATE	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
AUG., 1971					
17...	27.0	7.2	16	--	--
OCT.					
26...	12.5	8.4	18	--	.04
DEC.					
07...	.0	11.0	16	--	--
FEB., 1972					
10...	.0	12.2	--	75	--
APR.					
18...	4.0	8.8	14	--	--
JUNE					
12...	15.0	6.7	17	--	--
SEP.					
13...	16.5	8.0	--	--	.05

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
AUG., 1971											
17...	--	--	--	--	--	--	<.5	--	--	--	--
SEP.											
13...	9	0	0	550	2	30	<.5	1	0	1.6	0

04258750 BLACK RIVER BELOW CARTHAGE, N.Y.--Continued

CHEMICAL ANALYSES, AUGUST 1971 TO SEPTEMBER 1972

SPECTROGRAPHIC ANALYSES

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BISMUTH (BI) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED GALLIUM (GA) (UG/L)	DISSOLVED GERMANIUM (GE) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG. 17...	64	11	0	0	7	<4	0	0	2	0	0	690

DATE	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED TIN (SN) (UG/L)	DISSOLVED TITANIUM (TI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED ZIRCONIUM (ZR) (UG/L)
AUG. 17...	2	<10	45	0	3	0	21	0	2	.5	<87	0

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	METHOXYCHLOR (UG/L)	TOXAPHENE (UG/L)
AUG., 1971 17...	--	.0	.00	.00	.00	.00	.00	.00	--	.00	.00	.0
SEP., 1972 13...	.00	E.0	.00	.00	.00	.00	.00	.00	.00	.00	--	.0

DATE	DIAZINON (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG., 1971 17...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.0
SEP., 1972 06...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	E.0	4.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
SEP. 13...	.0	E.0	.0	1.2	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
SEP. 13...	.0	.0	.00	.0	.0	.0	E100

RADIOCHEMICAL ANALYSES

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (PC/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (PC/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 17...	.3	.8	<.1	<.4	4.4	3.5	.8	.7
SEP. 13...	.8	2.5	.2	.6	3.4	2.7	1.1	1.0

04259980 BLACK RIVER AT HUNTINGTONVILLE, N.Y.

LOCATION.--Lat 43°59'01", long 75°51'43", Jefferson County, at Watertown water department dosing station at middle of right channel at Huntington Island, 0.5 mile north of Huntingtonville, and 3.8 mile upstream of gaging station (04260500) at Watertown.

DRAINAGE AREA.--1,876 sq mi at gage.

PERIOD OF RECORD.--Water temperatures: April 1969 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 24.5°C July 19, 22; minimum, freezing point on several days during January and February.

Period of Record:
Water temperatures: Maximum, 25.5°C July 30, 31, 1970; minimum, freezing point on several days during January and February 1972.

COOPERATION.--Water temperature record furnished by the city of Watertown.

TEMPERATURE (°C) OF WATER, OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT AT APPROXIMATELY 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	13.5	1.0	0.5	0.5	0.5	1.0	10.5	18.0	18.5	20.0	22.0
2	16.0	13.0	0.5	---	0.5	0.5	---	13.0	15.5	---	20.0	23.0
3	---	12.0	0.5	0.5	0.5	0.5	1.5	12.0	16.5	20.0	19.0	---
4	17.0	10.5	0.5	0.5	0.5	0.5	1.5	12.0	---	18.0	18.5	19.5
5	18.0	9.0	---	0.5	0.5	---	1.5	11.0	18.0	17.0	19.5	18.0
6	17.0	8.0	0.5	0.5	---	0.5	1.0	9.5	19.0	18.0	18.5	19.0
7	15.0	---	0.5	0.5	0.5	0.5	1.0	---	18.0	18.5	19.0	19.0
8	15.0	6.5	0.5	0.5	0.5	0.5	1.0	8.5	18.5	19.5	18.5	20.0
9	14.5	5.0	0.5	---	0.5	0.5	---	11.0	18.0	---	18.5	19.0
10	---	4.5	0.5	0.5	0.5	0.5	2.0	11.0	16.5	19.5	17.0	19.5
11	13.5	4.0	0.5	0.5	0.5	0.5	3.5	10.5	---	20.5	17.0	18.0
12	13.5	4.0	---	0.5	0.5	---	3.5	11.0	14.5	22.0	18.5	18.5
13	11.0	4.0	1.0	0.5	---	0.5	3.5	11.5	15.0	21.5	17.0	18.5
14	11.0	---	1.0	0.5	0.5	0.5	3.5	---	16.0	22.0	18.0	18.5
15	12.0	3.0	1.0	0.5	0.5	1.0	3.5	13.0	17.0	22.0	18.0	17.0
16	12.0	3.0	2.0	0.5	0.5	1.0	---	14.0	17.0	---	18.0	18.0
17	12.0	3.0	3.0	0.5	0.5	1.0	3.0	14.5	18.5	21.5	18.0	---
18	12.0	3.5	1.5	0.5	0.5	1.0	3.5	15.5	---	23.0	17.0	18.5
19	11.5	3.5	---	0.5	0.5	---	4.5	16.5	20.5	24.5	19.0	18.0
20	12.0	3.5	1.5	0.5	---	1.0	5.0	18.0	20.5	24.0	---	16.0
21	12.0	---	1.0	0.5	0.5	1.0	6.0	---	22.0	23.5	19.5	16.0
22	13.0	1.0	0.5	0.5	0.0	0.5	6.5	18.0	20.5	24.5	19.5	16.5
23	13.5	1.5	0.5	---	0.0	0.5	6.5	18.5	20.5	---	21.0	16.0
24	14.0	3.0	0.5	0.5	0.0	0.5	6.5	18.5	18.5	23.0	23.0	15.5
25	14.0	2.0	---	0.5	0.0	0.5	6.0	18.5	---	24.0	23.0	16.0
26	14.0	1.5	---	0.0	0.5	---	6.5	18.5	17.0	22.0	23.0	17.0
27	14.0	1.5	1.0	0.0	---	0.5	7.0	19.0	17.0	20.5	---	18.0
28	13.5	---	0.5	0.0	0.5	0.5	8.0	---	18.0	21.0	22.0	15.5
29	13.0	1.5	0.5	0.0	0.5	0.5	8.5	19.5	20.5	21.5	22.0	15.5
30	13.0	1.5	0.5	---	---	0.5	---	19.5	19.5	---	22.0	16.0
31	---	---	0.5	0.0	---	0.5	---	19.0	---	21.5	21.5	---
AVERAGE	13.5	5.0	1.0	0.5	0.5	0.5	4.0	14.5	18.0	21.0	19.5	18.0

04260100 BLACK RIVER AT STATE HIGHWAY 3 AT WATERTOWN, N.Y.

LOCATION.--Lat 43°58'28", long 75°52'34", Jefferson County, at powerplant 0.2 mile downstream from bridge on State Highway 3 (Eastern Boulevard) in Watertown and 3.7 miles upstream from gaging station (04260500).

DRAINAGE AREA.--1,876 sq mi at gaging station.

PERIOD OF RECORD.--Chemical analyses: April 1969 to August 1972 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, OCTOBER 1971 TO AUGUST 1972

DATE	TIME	DIS-CHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT. 05...	0915	E1490	5.2	340	10	9.0	1.1	3.0	.7	29
NOV. 04...	1530	E1650	5.5	340	0	8.5	1.6	3.5	.8	26
DEC. 07...	--	E1680	6.4	240	0	15	1.6	3.7	.8	44
JAN. 18...	1500	E2740	7.4	200	0	16	1.8	2.8	.7	46
FEB. 11...	--	E2880	7.4	210	0	13	1.2	2.6	.7	35
MAR. 10...	1350	E4840	6.6	170	0	12	2.0	1.9	1.3	32
APR. 14...	--	E9490	5.5	180	0	21	2.5	2.3	1.2	60
MAY 02...	--	E11000	4.1	70	0	8.8	.8	1.1	.5	20
JULY 06...	--	E6660	4.9	260	0	15	1.2	1.6	.6	42
AUG. 02...	--	E2580	5.4	400	0	15	1.3	2.2	.5	41
23...	1300	E1600	6.2	330	10	15	1.5	2.7	.5	42

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
OCT. 05...	0	24	10	1.5	.1	.42	.69	.007	.14	.12
NOV. 04...	0	21	12	1.5	.1	.89	1.0	.007	.09	.07
DEC. 07...	0	36	15	2.1	.1	.38	.76	.005	.07	.30
JAN. 18...	0	38	13	2.3	.0	.00	.59	.004	.09	.50
FEB. 11...	0	29	13	1.7	.1	.29	.89	.007	.20	.40
MAR. 10...	0	26	10	5.0	.1	.26	1.0	.008	.16	.66
APR. 14...	0	49	11	3.0	.1	.59	1.6	.006	.51	.59
MAY 02...	0	16	8.5	.6	.0	.75	1.2	.005	.02	.44
JULY 06...	0	34	10	1.7	.0	.29	.72	.012	.13	.29
AUG. 02...	0	34	11	1.8	.1	.45	.86	.009	.12	.29
23...	0	34	10	1.6	.1	.42	.70	.006	.10	.18

04260100 BLACK RIVER AT STATE HIGHWAY 3 AT WATERTOWN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.									
05...	.020	46	7	27	3	74	6.8	15	.04
NOV.									
04...	.020	48	8	28	6	77	7.1	20	.03
DEC.									
07...	.030	68	6	44	8	110	7.0	17	.07
JAN.									
18...	.028	69	3	47	10	110	7.3	15	.03
FEB.									
11...	--	59	6	37	9	91	7.0	17	.03
MAR.									
10...	.010	58	9	38	12	86	7.2	18	.01
APR.									
14...	.052	80	19	63	14	133	7.3	6	.02
MAY									
02...	.020	37	13	25	9	60	7.2	11	.03
JULY									
06...	.030	58	12	42	8	92	7.3	17	.15
AUG.									
02...	.025	59	7	43	9	96	7.3	18	.03
23...	.025	60	8	44	9	95	7.4	15	.03

04260500 BLACK RIVER AT WATERTOWN, N.Y.

LOCATION.--Lat 43°59'08", long 75°55'30", Jefferson County, at gaging station at Vanduzee Street Bridge in Watertown, and 3.5 miles upstream from Philomel Creek.

DRAINAGE AREA.--1,876 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1956, August 1965 to September 1972.
Water temperatures: October 1955 to September 1959, July 1962 to March 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV. 11...	1220	2450	7.0	27	0	11	1.4	2.3	.8	31	0
DEC. 14...	1230	8110	5.4	170	30	11	1.1	1.4	.8	27	0
JAN. 20...	1115	3180	7.4	240	--	16	1.5	3.5	.8	44	0
FEB. 15...	1110	2010	7.6	--	--	13	1.3	5.3	.6	38	0
MAR. 21...	1425	4030	6.7	--	--	13	1.2	2.8	.7	34	0
APR. 20...	1240	20100	4.2	80	0	13	1.3	1.6	.8	34	0
MAY 26...	1250	3680	4.2	--	--	12	1.1	2.3	.7	35	0
JUNE 09...	0930	3460	4.6	--	--	10	.8	2.3	.6	30	0
JULY 17...	1315	6220	5.0	270	0	19	1.3	2.4	.8	56	0
SEP. 12...	1230	1200	7.0	--	--	14	1.4	3.6	.7	41	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
NOV. 11...	25	11	2.5	.1	.36	.70	.005	.18	.16	.020
DEC. 14...	22	13	1.7	.0	.54	1.1	.005	.12	.44	.030
JAN. 20...	36	13	3.3	.1	.43	1.0	.004	.10	.47	--
FEB. 15...	31	12	5.2	.1	--	--	--	--	.40	--
MAR. 21...	28	11	3.0	.1	--	--	--	--	.60	--
APR. 20...	28	8.6	1.5	.0	--	--	--	--	.70	--
MAY 26...	29	11	2.0	.1	--	--	--	--	.40	--
JUNE 09...	25	9.7	2.2	.2	--	--	--	--	.20	--
JULY 17...	46	12	2.5	.0	.54	.93	.011	.13	.25	.045
SEP. 12...	34	12	2.0	.1	--	--	--	--	.10	--

04260500 BLACK RIVER AT WATERTOWN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV.										
11...	53	4	33	8	82	7.1	3.0	13.0	18	.03
DEC.										
14...	51	17	32	10	77	7.0	1.5	13.4	26	.03
JAN.										
20...	70	4	46	10	112	7.2	.0	16.0	--	--
FEB.										
15...	--	--	38	7	106	7.3	2.0	--	--	--
MAR.										
21...	--	--	37	10	94	6.9	2.5	--	--	--
APR.										
20...	--	--	38	10	85	6.9	4.0	15.8	--	--
MAY										
26...	52	--	34	6	86	7.2	17.5	9.6	--	--
JUNE										
09...	46	--	28	4	77	7.3	17.5	10.8	--	--
JULY										
17...	72	13	53	7	120	7.4	24.0	7.6	19	.02
SEP.										
12...	--	--	41	7	100	7.7	20.0	8.4	--	--

04260505 BLACK RIVER BELOW WATERTOWN, N.Y.

LOCATION.--Lat 43°59'44", long 75°56'01", Jefferson County, at bridge on Interstate Highway 81 in Watertown, 0.9 mile downstream from gaging station (04260500).

DRAINAGE AREA.--1,876 sq mi (at gage).

PERIOD OF RECORD--Chemical analyses: August 1971 to september 1972.

CHEMICAL ANALYSES, AUGUST 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
AUG., 1971									
17...	0845	1050	--	13	36	0	30	13	1.2
OCT.									
26...	0835	1520	--	10	33	0	27	12	2.5
DEC.									
07...	1030	1680	--	19	56	0	46	16	5.2
FEB., 1972									
10...	1050	3150	--	14	38	0	31	14	2.5
APR.									
18...	0945	15400	--	--	40	--	33	11	2.5
JUNE									
12...	0830	4880	--	--	32	0	26	9.7	1.5
SEP.									
12...	1430	1390	6.8	15	42	0	34	--	--

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
AUG., 1971									
17...	--	.43	--	--	--	--	.060	19	91
OCT.									
26...	--	.48	.71	.010	.12	.10	.060	6	85
DEC.									
07...	--	.51	1.0	.009	.16	.41	.10	16	142
FEB., 1972									
10...	--	.28	.80	.009	.12	.40	.025	4	95
APR.									
18...	--	.50	1.1	.005	.05	.60	.11	102	92
JUNE									
12...	--	.40	1.1	.010	.40	.30	.037	12	75
SEP.									
12...	.1	--	--	--	--	--	.037	--	101

DATE	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
AUG., 1971					
17...	7.0	21.0	7.6	23	--
OCT.					
26...	7.0	13.0	8.2	18	.05
DEC.					
07...	7.3	.0	12.6	21	--
FEB., 1972					
10...	7.7	.0	12.1	17	--
APR.					
18...	--	4.0	11.0	27	--
JUNE					
12...	8.5	14.0	10.0	15	--
SEP.					
12...	8.4	19.0	8.8	--	.10

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
AUG., 1971											
17...	--	--	--	--	--	--	<.5	--	--	--	--
SEP., 1972											
12...	9	0	0	470	2	20	<.5	2	2	.2	0

04260505 BLACK RIVER BELOW WATERTOWN, N.Y.--Continued

CHEMICAL ANALYSES, AUGUST 1971 TO SEPTEMBER 1972

SPECTROGRAPHIC ANALYSES

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG. 17...	72	15	0	0	11	<6	0	0	3	0	<2	390

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
AUG. 17...	2	<10	17	0	3	0	29	<2	2	<.5	<110	<2

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	METH-OXY-CHLOR (UG/L)	TOX-APHENE (UG/L)
AUG., 1971 17...	—	.0	.00	.00	.00	.00	.00	—	.00	—	.00	.0
SEP., 1972 12...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	—	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	MALA-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG., 1971 17...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	—	7.0
SEP., 1972 12...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)
SEP. 12...	.0	.0	.5	.4	1.5	.0	.0	.0

DATE	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
SEP. 12...	.0	.0	.0	.00	.0	.0	.0	20

RADIOCHEMICAL ANALYSES

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 17...	<.3	<.8	<.1	<.4	4.8	3.8	.9	.8
SEP. 12...	.4	1.2	.2	.5	3.1	2.5	.7	.7

04260712 ST. LAWRENCE RIVER AT CAPE VINCENT, N.Y.

LOCATION.--Lat 44°07'48", long 76°20'10", Jefferson County, at end of U.S. Coast Guard Station dock in Cape Vincent and approximately 1,300 ft downstream from village water intake.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
04...	--	.2	0	0	39	7.8	13	1.5	104	0
NOV.										
04...	1400	.2	0	0	35	8.3	15	1.7	107	0
MAY										
02...	--	.1	0	0	42	7.5	13	1.5	115	0
JULY										
06...	--	.1	0	0	40	7.7	13	1.5	114	0
AUG.										
02...	--	.2	10	0	37	7.4	13	1.4	102	0
23...	1200	.2	10	0	38	8.0	13	1.4	106	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
OCT.									
04...	85	27	27	.1	.40	.55	.006	.10	.04
NOV.									
04...	88	28	28	.1	.48	.65	.004	.14	.03
MAY									
02...	94	29	25	.1	.25	.44	.005	.05	.14
JULY									
06...	94	28	27	.1	.35	.55	.010	.12	.07
AUG.									
02...	84	27	27	.1	.52	.79	.013	.15	.11
23...	87	28	28	.1	.36	.42	.004	.05	.01

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.									
04...	.020	168	0	130	44	311	8.0	10	.02
NOV.									
04...	.010	170	3	120	34	329	7.9	7	.02
MAY									
02...	.021	176	3	140	41	328	8.3	7	.02
JULY									
06...	.016	174	4	130	38	329	8.2	8	.02
AUG.									
02...	.037	165	3	120	39	316	8.2	8	.01
23...	.020	169	4	130	41	320	8.1	6	.03

04260800 ST. LAWRENCE RIVER AT ALEXANDRIA BAY, N.Y.

LOCATION.--Lat 44°20'15", long 75°55'15", Jefferson County, off pier behind Post Office, at the Corps of Engineers' river-stage gage at Alexandria Bay.

DRAINAGE AREA.--293,000 sq mi, approximately.

PERIOD OF RECORD.--Water temperatures: October 1955 to November 1972 (discontinued).

EXTREMES.--Period of record:
Water temperatures: Maximum, 24.0°C on several days during August and September 1959; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature record furnished by Douglas Manning.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER TO NOVEMBER 1972
(TWICE-DAILY MEASUREMENTS AT 0800 AND 1600)

	OCTOBER		NOVEMBER	
DAY	AM	PM	AM	PM
1	16.5	16.5	14.0	---
2	16.5	16.5	13.0	---
3	17.0	18.5	13.0	---
4	17.0	18.5	12.0	---
5	18.0	18.0	13.5	---
6	18.5	18.0	12.0	---
7	16.5	15.5	13.5	---
8	15.5	15.5	---	---
9	15.5	15.5	---	---
10	15.5	15.5	---	---
11	15.5	15.5	13.0	---
12	15.5	15.5	---	---
13	14.5	14.5	---	---
14	15.0	15.5	---	---
15	15.0	15.5	11.5	---
16	15.5	15.0	11.5	---
17	15.0	15.0	11.0	---
18	15.0	15.0	10.5	---
19	15.0	15.0	9.5	---
20	14.5	14.5	9.0	---
21	15.0	15.0	---	---
22	15.0	14.5	6.5	---
23	15.0	14.5	5.0	---
24	13.5	13.5	---	---
25	14.0	14.0	---	---
26	14.5	14.5	---	---
27	13.5	13.5	---	---
28	13.5	13.5	---	---
29	13.0	12.0	---	---
30	13.5	13.0	---	---
31	13.5	13.5	---	---

04262650 OSWEGATCHIE RIVER AT GOUVERNEUR, N.Y.

LOCATION.--Lat 44°20'05", long 75°28'17", St. Lawrence County, at bridge on U.S. Highway 11, 50 ft upstream from dam in Gouverneur.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED CAL-CIUM (CA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
NOV. 15...	0945	13	34	0	28	22	3.7	.33	.64	.000	.11	.20
FEB. 10...	1400	10	24	0	20	18	2.2	.28	1.1	.032	.36	.50
MAY 16...	0745	7.1	17	0	14	13	2.0	.24	.69	.005	.05	.40
SEP. 12...	1045	13	33	0	27	--	--	--	--	--	--	.20

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
NOV. 15...	.020	.006	131	6	81	110	--	2.5	4	9.2	16	2.0
FEB. 10...	.026	.019	69	4	76	90	7.8	.0	10	13.0	17	1.5
MAY 16...	.011	.005	53	2	55	67	--	12.5	3	8.6	11	2.1
SEP. 12...	.021	--	--	2	--	106	8.0	18.0	4	9.2	--	--

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
FEB. 10...	--	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	--	--
SEP. 12...	5.8	.2	.40	72	620	870	.02	3.0	.07	10

DATE	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB. 10...	--	--	--	5	--	--	--	--	--
MAY 16...	--	--	--	1	--	--	--	--	--
SEP. 12...	0	0	550	3	30	.6	1	2	20

04262650 OSWEGATCHIE RIVER AT GOUVERNEUR, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)	DI-AZINON (UG/L)
SEP. 12...	.00	E.0	.00	.00	.00	.00	.00	.00	.00	.00	.0	.00

DATE	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP. 12...	.00	.00	.00	.00	.00	.00	.00	.00	.00	E.0	5.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)
SEP. 12...	.0	E.0	2.4	.4	.0	.0	.0	.0

DATE	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
SEP. 12...	.0	.0	.0	.00	.0	.0	.0	E80

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 12...	.4	1.3	<.1	<.4	3.8	3.0	.5	.4

04263990 OSWEGATCHIE RIVER AT OGDENSBURG, N.Y.

LOCATION.--Lat 44°41'03", long 75°29'20", St. Lawrence County, at bridge on State Highway 37 in Ogdensburg and 1.0 mile upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: April 1969 to November 1970, July to September 1972 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JULY										
05...	1500	3.7	210	0	17	4.0	2.1	.8	57	0
SEP.										
25...	1630	3.6	200	0	16	3.4	3.3	1.0	50	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
JULY									
05...	47	12	1.9	.1	.16	.47	.007	.11	.20
SEP.									
25...	41	15	2.5	.1	.39	.65	.009	.12	.14

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
JULY									
05...	.033	71	11	59	12	123	7.5	14	.04
SEP.									
25...	.024	71	2	54	13	122	7.9	15	.04

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONT. - NEAR MASSENA, N.Y.
(FORMERLY PUBLISHED AS ST. LAWRENCE RIVER NEAR MASSENA, N.Y.)
(International Hydrologic Decade River Station)

LOCATION.--Lat 45°00'22", long 74°48'43", Stormont County, Ontario - St. Lawrence County, New York, at Robert Moses - Robert H. Saunders Power Dam on Lake St. Lawrence at the International Boundary at Cornwall, Ontario, 2.9 miles upstream from Grass River, 6.2 miles upstream from Raquette River, and 5.9 miles northeast of Massena, N.Y.

DRAINAGE AREA.--299,000 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1955 to October 1958, January 1966 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 22.0°C July 26 to Aug. 8; minimum, 0.5°C on many days during winter period.

Period of record:
Water temperatures: Maximum, 24.0°C Aug. 10, 11, 1967, Aug. 17-19, 1969, and Aug. 13-17, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Measurements made approximately 68 ft below normal forebay level. Records for period October 1955 to October 1958 collected at Aluminum Company of America Massena Canal Power Station and are unpublished.

COOPERATION.--Water temperature record furnished by the Power Authority of the State of New York.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	14.5	6.0	1.0	0.5	0.5	0.5	5.0	12.0	16.0	22.0	21.5
2	18.0	14.5	5.5	1.0	0.5	0.5	0.5	5.0	12.0	16.0	22.0	21.5
3	18.0	14.5	5.5	1.0	0.5	0.5	0.5	5.5	12.0	15.5	22.0	21.5
4	18.0	14.5	5.0	1.0	0.5	0.5	0.5	5.5	13.0	15.5	22.0	21.5
5	18.0	14.0	5.0	1.0	0.5	0.5	0.5	5.5	13.0	15.5	22.0	21.0
6	18.0	13.5	5.0	1.0	0.5	0.5	0.5	6.0	13.5	15.5	22.0	21.0
7	17.0	13.0	4.5	1.0	0.5	0.5	0.5	6.0	13.5	16.0	22.0	21.0
8	16.5	12.0	4.5	1.0	0.5	0.5	0.5	6.5	14.0	16.0	22.0	21.0
9	16.5	11.5	4.5	0.5	0.5	0.5	0.5	6.5	14.5	16.5	21.5	21.0
10	16.5	11.0	5.0	0.5	0.5	0.5	0.5	7.0	14.0	16.5	21.0	20.5
11	16.5	11.0	5.0	0.5	0.5	0.5	0.5	7.0	14.0	16.5	20.5	20.5
12	16.0	10.5	5.0	1.0	0.5	0.5	0.5	7.0	14.0	17.0	20.5	20.0
13	15.5	10.0	5.0	1.0	0.5	0.5	0.5	8.0	14.0	18.0	20.0	20.0
14	15.5	9.5	5.0	1.0	0.5	0.5	0.5	8.0	14.5	18.0	20.0	20.0
15	15.5	9.5	4.5	1.0	0.5	0.5	0.5	8.0	14.5	18.5	20.0	20.0
16	15.0	9.0	4.5	0.5	0.5	0.5	1.0	8.5	15.0	18.5	20.0	20.0
17	15.0	9.0	4.5	0.5	0.5	0.5	1.0	8.5	14.5	19.0	19.5	20.0
18	15.0	9.0	4.5	0.5	0.5	0.5	1.0	9.0	14.5	19.5	19.5	20.0
19	15.0	9.0	4.0	0.5	0.5	0.5	1.5	9.0	14.0	20.0	19.0	19.5
20	15.0	9.0	3.5	0.5	0.5	0.5	2.0	9.0	14.0	20.5	19.0	19.5
21	15.0	9.0	3.5	0.5	0.5	0.5	2.0	9.5	14.5	20.5	20.0	19.0
22	15.0	9.0	3.5	0.5	0.5	0.5	2.0	10.0	14.5	21.0	20.5	19.0
23	15.0	8.0	3.0	0.5	0.5	0.5	3.0	10.5	15.0	21.0	20.5	19.0
24	15.0	7.0	3.0	0.5	0.5	0.5	3.0	10.5	15.0	21.0	20.5	19.0
25	15.0	7.0	3.0	0.5	0.5	0.5	3.0	11.0	15.5	21.5	20.5	19.0
26	15.0	7.0	3.0	0.5	0.5	0.5	3.0	11.0	15.5	22.0	21.0	19.0
27	15.0	6.5	3.0	0.5	0.5	0.5	3.5	11.5	16.0	22.0	21.0	19.0
28	15.0	6.5	2.0	0.5	0.5	0.5	3.5	11.5	16.0	22.0	21.0	18.0
29	15.0	6.5	2.0	0.5	0.5	0.5	4.5	12.0	16.0	22.0	21.0	18.0
30	15.0	6.5	2.0	0.5	---	0.5	4.5	12.0	16.0	22.0	21.5	18.0
31	15.5	---	1.0	0.5	---	0.5	---	12.0	---	22.0	21.5	---

04265437 GRASS RIVER ABOVE MASSENA, N.Y.

LOCATION.--Lat 44°55'20", long 74°55'36", St. Lawrence County, at bridge on State Highway 37, 0.4 mile west of State Highway 56, 0.7 mile west of Massena, and 3.0 miles upstream from Massena Power Canal.

PERIOD OF RECORD.--Chemical analyses: May to November 1970, July to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1972

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JULY 05...	1330	6.3	440	0	13	4.0	1.9	.4	48	0
SEP. 25...	1545	3.9	320	0	19	5.5	3.5	.9	66	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
JULY 05...	39	11	1.8	.1	.43	.75	.009	.14	.16
SEP. 25...	54	14	3.8	.1	.38	.42	.007	.00	.04

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JULY 05...	.035	63	7	49	10	103	7.5	22	.04
SEP. 25...	.022	84	4	70	16	143	7.7	21	.04

04265452 GRASS RIVER BELOW MASSENA CENTER, N.Y.

LOCATION.--Lat 44°57'52", long 74°47'53", St. Lawrence County, off south bank at end of road off South Grass River Road, 0.5 mile west of Haverstock Road, 1.7 miles east of Massena Center, 2.4 miles downstream from bridge on State Highway 131, and 2.4 miles upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: April to November 1970, July to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1972

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JULY 05...	1300	5.8	480	0	14	4.4	3.4	.5	48	0
SEP. 25...	1530	4.0	400	0	22	6.2	6.6	1.1	62	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
JULY 05...	39	14	3.8	.7	.44	.89	.010	.14	.30
SEP. 25...	51	22	8.2	4.1	.34	.73	.009	.05	.34

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JULY 05...	.051	72	6	53	14	120	7.4	23	.04
SEP. 25...	.077	107	2	80	30	190	7.3	18	.05

04268230 RAQUETTE RIVER AT MASSENA SPRINGS, N.Y.

LOCATION.--Lat 44°54'39", long 74°53'19", St. Lawrence County, at bridge on State Highway 420 (S. Main Street) in Massena Springs, 740 ft downstream from staff gage and 0.4 mile downstream from Hutchins Creek.

PERIOD OF RECORD.--Chemical analyses: April 1969 to November 1970, July to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1972

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JULY										
05...	1315	4.8	160	0	4.6	1.1	1.0	.3	11	0
SEP.										
25...	--	4.3	270	0	6.4	1.2	1.2	.3	14	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
JULY									
05...	9	8.5	1.1	.0	.28	.59	.006	.07	.24
SEP.									
25...	11	9.3	2.0	.0	.26	.76	.002	.10	.40

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JULY									
05...	.012	28	8	16	7	42	7.0	17	.03
SEP.									
25...	.016	34	3	21	9	45	7.0	16	.04

04269500 DEER RIVER AT BRASHER IRON WORKS, N.Y.

LOCATION.--Lat 44°53'32", long 74°41'28", St. Lawrence County, at highway bridge, 400 ft downstream from former gaging station at Brasher Iron Works, 3.6 miles upstream from mouth, and 3.8 miles downstream from Lawrence Brook.

DRAINAGE AREA.--189 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 21...	1010	69	--	--	--	--	--	--	--	--	--	--
NOV. 18...	0850	118	7.8	220	20	22	7.1	2.6	1.4	81	0	66
DEC. 09...	0930	218	8.0	210	0	19	7.0	2.8	1.1	72	0	59
JAN. 13...	1010	170	8.8	210	0	20	6.5	2.3	1.6	71	0	58
FEB. 14...	1125	66	11	260	0	18	6.2	3.3	1.0	71	0	58
MAR. 06...	1240	140	10	300	0	18	6.3	2.4	.9	69	0	57
APR. 13...	1000	1240	4.7	240	0	16	3.6	1.3	1.5	58	0	48
MAY 09...	1140	679	3.8	60	0	10	2.7	1.4	.6	31	0	25
JUNE 13...	0720	282	5.5	250	0	15	3.0	1.7	.3	50	0	41
JULY 18...	1135	256	6.	410	0	18	4.9	1.8	.6	68	0	56
AUG. 11...	1220	392	6.6	490	0	17	5.5	1.7	.4	68	0	56
SEP. 11...	1410	111	7.8	340	0	19	5.5	2.9	1.0	72	0	59

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 21...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 18...	14	7.7	.1	--	--	.010	.82	.14	.10	105	--	84
DEC. 09...	18	2.8	.1	.31	.71	.006	.15	.24	.040	96	2	76
JAN. 13...	17	3.0	.0	.56	1.1	.009	.26	.34	.094	97	1	77
FEB. 14...	15	3.4	.1	.45	1.2	.132	.10	.60	.22	97	2	70
MAR. 06...	14	2.5	.1	.33	1.1	.015	.24	.54	.060	91	6	71
APR. 13...	11	1.9	.0	.55	.96	.017	.20	.20	.11	70	25	55
MAY 09...	12	1.6	.0	.40	.75	.015	.10	.24	.032	49	8	36
JUNE 13...	11	1.3	.1	.81	1.1	.005	.10	.20	.051	64	8	50
JULY 18...	14	1.9	.1	.69	1.0	.010	.10	.20	.079	83	--	65
AUG. 11...	9.0	2.0	.1	.72	.92	.011	.09	.10	.035	77	6	65
SEP. 11...	11	2.8	.1	.51	.82	.035	.06	.22	.19	87	3	70

CONTINUED NEXT PAGE

04269500 DEER RIVER AT BRASHER IRON WORKS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 21...	--	--	--	10.0	11.2	--	--	--	--	--	--
NOV. 18...	18	166	7.7	1.0	13.4	14	.03	5	0	1	<.5
DEC. 09...	17	157	7.4	.5	11.6	15	.06	--	--	--	--
JAN. 13...	18	155	7.2	.0	--	16	.04	--	--	--	--
FEB. 14...	12	153	7.3	.0	14.0	14	.02	--	--	--	--
MAR. 06...	14	149	7.3	.0	14.0	12	.03	6	20	3	<.5
APR. 13...	7	120	6.7	.0	12.9	19	.03	--	--	--	--
MAY 09...	11	83	7.3	10.5	10.4	20	.03	--	--	--	--
JUNE 13...	9	102	8.0	13.0	10.2	28	.04	--	--	--	--
JULY 18...	9	130	7.6	24.0	8.0	39	.04	--	--	--	--
AUG. 11...	9	139	8.0	17.5	8.0	35	.03	--	--	--	--
SEP. 11...	11	152	8.0	16.5	8.9	20	.04	--	--	--	--

04273400 SARANAC RIVER ABOVE PLATTSBURGH, N.Y.

LOCATION.--Lat 44°40'10", long 73°30'28", Clinton County, at powerplant at Old Military Turnpike, 1.4 miles west of Plattsburgh and 2.7 miles upstream from gaging station (04273500).

DRAINAGE AREA.--608 sq mi (at gage).

PERIOD OF RECORD.--Chemical analyses: April 1969 to June 1972 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, OCTOBER 1971 TO JUNE 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
NOV.										
04...	1100	E401	6.3	280	0	8.5	2.6	2.2	.6	35
DEC.										
13...	1100	E758	7.6	210	0	10	2.9	2.0	.7	36
JAN.										
17...	1100	E540	10	200	0	9.5	2.6	2.0	.6	31
FEB.										
14...	1100	E560	10	180	0	10	2.6	2.5	.6	31
MAR.										
13...	1300	E697	9.8	220	0	8.7	2.4	2.3	.6	30
APR.										
10...	1130	E822	8.2	200	0	8.5	2.4	2.3	.6	27
MAY										
08...	1100	E5040	5.1	100	0	5.0	1.0	.9	.4	10
JUNE										
07...	1100	E1580	4.8	160	0	6.2	1.3	1.6	.6	20

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
NOV.										
04...	0	29	7.7	2.2	.0	.50	.73	.003	.13	.10
DEC.										
13...	0	30	10	2.8	.0	.14	.55	.008	.10	.30
JAN.										
17...	0	25	9.8	2.8	.0	.22	.68	.005	.18	.28
FEB.										
14...	0	25	10	2.5	.0	.19	.70	.027	.09	.40
MAR.										
13...	0	25	9.5	2.0	.0	.17	.63	.013	.09	.35
APR.										
10...	0	22	9.6	2.2	.0	.32	.69	.006	.07	.29
MAY										
08...	0	8	10	1.3	.0	1.5	1.8	.008	.08	.25
JUNE										
07...	0	16	8.7	2.0	.0	.67	1.1	.005	.19	.26

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV.									
04...	.020	49	5	32	3	78	7.2	15	.02
DEC.									
13...	.020	55	2	37	7	85	7.3	13	.05
JAN.									
17...	.023	54	0	34	9	78	7.2	11	.03
FEB.									
14...	.000	56	2	36	10	81	7.2	12	.03
MAR.									
13...	.020	52	2	32	7	77	7.3	9	.01
APR.									
10...	.016	49	11	31	9	77	7.0	8	.02
MAY									
08...	.015	31	7	17	8	40	6.8	14	.03
JUNE									
07...	.044	37	13	21	4	53	7.1	22	.06

04279015 TICONDEROGA CREEK AT TICONDEROGA, N.Y.

LOCATION.--Lat 43°51'00", long 73°25'20", Essex County, at bridge on State Highway 22 in Ticonderoga, and 0.8 mile downstream from gaging station (04279000 Lake George Outlet at Ticonderoga) which is 250 ft upstream from Trout Brook.

DRAINAGE AREA.--234 sq mi (at gage).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1972.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT.										
01...	1310	E169	1.7	40	0	13	2.7	3.7	.6	40
28...	1120	47	2.4	70	0	16	3.6	4.7	1.0	54
DEC.										
09...	1255	E32	3.4	100	0	20	5.2	8.7	1.0	73
JAN.										
18...	1200	E220	2.5	30	0	14	3.2	3.9	.6	44
FEB.										
07...	1330	E432	2.0	10	0	12	2.5	2.6	.6	36
MAR.										
09...	1155	398	1.9	30	0	12	2.6	3.3	.7	36
APR.										
12...	1105	E672	2.0	30	0	14	2.8	3.0	.6	39
MAY										
08...	1220	E1060	1.8	20	0	13	2.6	2.4	.5	36
JUNE										
02...	1155	E447	1.5	20	0	13	2.5	2.6	.5	38
JULY										
05...	1320	953	1.7	20	0	12	2.5	2.7	.5	35
31...	1235	355	1.7	30	0	14	2.5	2.9	.5	36
AUG.										
22...	1305	120	1.8	60	0	15	3.0	4.0	.5	46
SEP.										
25...	0915	E24	3.1	110	0	20	3.9	6.1	.8	68

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
OCT.										
01...	0	33	12	3.6	.0	.31	.50	.044	.07	.08
28...	0	44	13	4.5	.1	.24	.53	.010	.25	.03
DEC.										
09...	0	60	19	8.9	.1	.30	.65	.007	.24	.10
JAN.										
18...	0	36	15	4.7	.0	.24	.39	.006	[illegible]	.06
FEB.										
07...	0	30	14	3.5	.0	.33	.45	.014	.09	.02
MAR.										
09...	0	30	14	5.0	.0	.13	.23	.004	.03	.07
APR.										
12...	0	32	14	4.0	.0	.10	.16	.004	.02	.03
MAY										
08...	0	30	14	3.3	.0	1.6	1.6	.006	.05	.04
JUNE										
02...	0	31	12	3.6	.0	.24	.39	.004	.05	.10
JULY										
05...	0	29	12	3.5	.0	.39	.55	.010	.14	.01
31...	0	30	14	3.5	.0	.29	.42	.004	.09	.04
AUG.										
22...	0	38	14	4.6	.0	.40	.60	.030	.11	.06
SEP.										
25...	0	56	16	5.0	.0	.25	.52	.025	.17	.08

04279015 TICONDEROGA CREEK AT TICONDEROGA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.									
01...	.070	58	4	44	11	104	7.4	10	.01
28...	.040	73	2	55	10	132	7.2	8	.03
DEC.									
09...	.14	104	6	71	11	184	7.5	13	.02
JAN.									
18...	.046	66	0	48	12	118	7.5	7	.01
FEB.									
07...	.015	56	3	40	11	100	7.3	5	.03
MAR.									
09...	.000	58	3	41	11	108	7.2	4	.02
APR.									
12...	.015	60	3	46	14	108	6.7	5	.01
MAY									
08...	.014	57	8	43	14	100	7.7	4	.01
JUNE									
02...	.023	55	10	43	12	102	7.5	6	.00
JULY									
05...	.026	53	5	40	12	100	7.3	8	.04
31...	.047	57	6	45	16	105	7.7	5	.02
AUG.									
22...	.078	66	8	50	12	120	7.7	7	.01
SEP.									
25...	.045	89	3	66	10	155	7.9	10	.03

04294402 LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y.

LOCATION.--Lat 43°34'55", long 73°25'19", Washington County, N.Y.-Rutland County, Vt., at midchannel directly south of navigation light, 0.25 mile upstream from South Bay and 2.0 miles northwest of Whitehall.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DEPTH (FT)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
OCT. 05...	1400	8.0	--	--	--	--	--	--	.54	.30	.090	--
MAY 02...	1520	10	--	--	--	--	--	--	.27	.40	.036	--
JUNE 20...	1445	9.0	--	--	--	--	--	--	.34	.50	.056	--
JULY 06...	1515	12	--	--	--	--	--	--	.53	.40	.10	--
AUG. 08...	1430	13	--	--	--	--	--	--	.42	.40	.072	--
SEP. 06...	1530	12	3.5	29	97	0	80	.1	.60	.40	.082	130

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT. 05...	--	255	7.7	18.0	20	8.5	11	4.8	500	19000	--	.03
MAY 02...	--	173	7.4	11.0	10	8.4	10	2.2	120	770	--	.03
JUNE 20...	--	232	7.5	21.0	10	--	11	.7	400	59000	--	.03
JULY 06...	--	232	7.5	19.0	20	8.5	14	3.8	800	20000	--	.03
AUG. 08...	--	250	7.7	21.0	20	7.4	8	8.3	1700	120000	--	.01
SEP. 06...	12	235	6.2	22.0	25	6.6	--	1.9	100	4400	.01	.04

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
SEP. 06...	6	0	20	590	4	80	<.5	2	2	.3	40

PESTICIDE ANALYSIS

DATE	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP. 06...	.00	.00	.00	3.0

RADIOCHEMICAL ANALYSIS

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (PC/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (PC/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 06...	<.6	<1.9	<.1	<.4	4.6	3.8	1.0	.9

04294408 LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y.

LOCATION.--Lat 43°50'60", long 73°23'16", Essex County, N.Y.-Addison County, Vt., at midlake at New York-Vermont state line opposite mouth of Ticonderoga Creek, 0.5 mile south of Fort Ticonderoga and 2.0 miles southeast of Ticonderoga.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DEPTH (FT)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
OCT. 05...	1200	9.0	--	--	--	--	--	--	.62	.20	.060	--
MAY 02...	1245	12	--	--	--	--	--	--	.13	.04	.018	--
JUNE 20...	1225	11	--	--	--	--	--	--	.75	.10	.028	--
JULY 06...	1300	12	--	--	--	--	--	--	.43	.04	.057	--
AUG. 08...	1200	13	--	--	--	--	--	--	.62	.05	.15	--
SEP. 06...	1230	10	.7	19	60	0	49	.0	.49	.00	.035	88

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT. 05...	--	172	6.3	17.0	15	9.0	18	3.8	170	3200	--	.03
MAY 02...	--	119	7.6	8.5	7	9.8	6	1.0	10	480	--	.02
JUNE 20...	--	210	8.3	22.0	10	--	16	4.0	0	10	--	.03
JULY 06...	--	149	6.9	19.0	10	7.9	8	2.0	170	2300	--	.01
AUG. 08...	--	203	8.2	22.0	15	8.2	10	9.3	300	7900	--	.02
SEP. 06...	2	156	6.6	22.5	8	7.7	--	3.6	0	3800	.01	.02

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
SEP. 06...	3	0	0	160	3	20	<.5	2	3	20

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOXAPHENE (UG/L)	DIAZINON (UG/L)
SEP. 06...	.00	E.0	.00	.00	.00	.00	.00	.00	.00	.00	.0	.00

DATE	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP. 06...	.00	.00	.00	.00	.00	.00	.00	.00	.00	E.0	1.0

RADIOCHEMICAL ANALYSIS

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (PC/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (PC/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 06...	<.4	<1.1	<.1	<.4	4.3	3.4	<.4	<.4

04294410 LAKE CHAMPLAIN NEAR CROWN POINT, N.Y.

LOCATION.--Lat 4 55'25", long 73°24'20", Essex County, N.Y.-Addison County, Vt., at midlake at New York-Vermont state line, approximately 1.5 mile north of Fivemile Point and 2.3 miles southeast of Crown Point.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DEPTH (FT)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
OCT. 05...	1100	9.0	--	--	--	--	--	--	.55	.20	.060	--
MAY 02...	1200	12	--	--	--	--	--	--	.66	.20	.066	--
JUNE 20...	1200	9.0	--	--	--	--	--	--	.42	.02	.041	--
JULY 06...	1230	11	--	--	--	--	--	--	1.2	.03	.064	--
AUG. 08...	1115	11	--	--	--	--	--	--	.54	.20	.066	--
SEP. 06...	1145	11	.3	27	91	0	75	.1	.50	.00	.037	120

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 05...	--	198	7.6	18.0	25	7.9	18	3.1	1	3700	--	.03
MAY 02...	--	146	7.6	9.0	15	11.1	9	.7	0	2	--	.03
JUNE 20...	--	182	8.0	21.0	10	--	16	2.0	0	8	--	.03
JULY 06...	--	190	7.5	20.5	10	7.5	9	3.8	0	6300	--	.02
AUG. 08...	--	202	8.2	22.0	20	8.1	11	11	0	5400	--	.02
SEP. 06...	3	256	6.5	22.0	10	7.4	--	7.4	0	0	.00	.03

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
SEP. 06...	3	0	50	200	8	50	<.5	2	1	50

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)	DI-AZINON (UG/L)
SEP. 06...	.00	E.0	.00	.00	.00	.00	.00	.00	.00	.00	.0	.00

DATE	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP. 06...	.00	.00	.00	.00	.00	.00	.00	.00	.00	E.0	2.0

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 06...	<.5	<1.6	<.1	<.4	4.3	3.5	<.4	<.4

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, N.Y.

LOCATION.--Lat 44°59'46", long 73°21'37" (revised), Clinton County, at gaging station at outlet of Lake Champlain at old railroad bridge in Rouses Point and 1.0 mile south of Fort Montgomery.

DRAINAGE AREA.--8,277 sq mi.

PERIOD OF RECORD.--Chemical analyses: April 1969 to June 1972 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, OCTOBER 1971 TO JUNE 1972

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV. 03...	1000	1.0	10	0	17	4.2	4.6	1.3	58	0
APR. 11...	0900	1.6	20	0	17	4.0	4.3	1.2	54	0
MAY 08...	0900	1.8	10	0	17	4.0	4.0	1.2	50	0
JUNE 07...	0900	1.2	10	0	15	2.5	4.1	1.0	48	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
NOV. 03...	48	14	6.0	.0	.32	.48	.007	.12	.04
APR. 11...	44	16	6.5	.0	.20	.44	.004	.00	.24
MAY 08...	41	15	5.9	.0	1.4	1.8	.012	.16	.23
JUNE 07...	39	13	5.7	.1	.26	.59	.015	.10	.22

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV. 03...	.020	77	6	60	12	144	7.5	19	.02
APR. 11...	.010	78	0	59	15	147	7.3	3	.02
MAY 08...	.011	76	2	59	18	136	7.7	6	.03
JUNE 07...	.015	68	0	48	8	129	7.4	8	.03

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
STREAMS ON LONG ISLAND											
01302500 - GLEN COVE CREEK AT GLEN COVE NY (LAT 40 51 48 LONG 073 38 05)											
OCT., 1971											
08...	2.8	15	860	120	16	5.5	12	2.2	43	16	17
APR., 1972											
18...	4.1	12	1000	130	17	5.2	13	2.2	42	23	23
AUG.											
15...	3.2	15	740	90	17	5.4	11	1.7	41	19	18
01303500 - COLD SPRING BK AT COLD SPRING HARBOR NY (LAT 40 51 25 LONG 073 27 50)											
OCT., 1971											
08...	1.7	8.2	660	120	3.5	1.7	5.8	1.0	18	2.9	7.8
APR., 1972											
18...	3.0	5.6	390	20	4.2	1.5	6.7	.9	15	6.2	11
AUG.											
15...	2.3	6.3	300	40	4.1	1.6	5.7	.4	18	5.3	8.9
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN NY (LAT 40 50 58 LONG 073 13 29)											
OCT., 1971											
08...	28	5.5	210	30	4.3	1.7	7.2	1.7	14	5.1	8.2
APR., 1972											
19...	40	5.6	280	0	4.4	1.5	6.6	.8	14	6.0	11
AUG.											
17...	35	6.4	260	60	5.2	1.8	5.9	1.1	15	6.0	8.7
01304500 - PECONIC RIVER AT RIVERHEAD NY (LAT 40 59 49 LONG 072 41 14)											
NOV., 1971											
12...	19	5.9	450	60	8.0	2.4	6.7	1.8	21	11	10
APR., 1972											
19...	42	3.1	510	60	6.5	2.0	6.4	1.5	9	15	10
AUG.											
16...	35	5.6	1400	90	7.0	2.3	6.5	1.2	19	12	12
01305500 - SWAN RIVER AT EAST PATCHOGUE NY (LAT 40 46 01 LONG 072 59 39)											
OCT., 1971											
13...	8.5	6.8	450	40	5.5	1.8	7.2	1.3	17	7.3	8.5
APR., 1972											
18...	11	10	190	100	5.8	1.7	6.9	1.1	16	10	9.5
AUG.											
16...	11	7.6	240	80	6.1	1.8	6.3	1.0	16	8.9	9.5
01306000 - PATCHOGUE RIVER AT PATCHOGUE NY (LAT 40 45 56 LONG 073 01 16)											
NOV., 1971											
17...	15	7.1	300	60	7.1	2.1	8.5	1.9	18	10	11
APR., 1972											
18...	--	8.3	550	210	7.2	2.1	9.0	1.3	21	12	12
AUG.											
16...	--	3.3	540	150	6.8	2.2	7.9	1.1	19	10	12
18...	--	3.1	680	150	7.8	2.2	9.4	5.3	19	11	20
01306495 - CONNETQUOT R DISTRIBUTARY NEAR OAKDALE NY (LAT 40 45 00 LONG 073 08 52)											
OCT., 1971											
08...	2.4	11	210	0	4.0	2.2	5.0	1.0	20	4.5	5.6
FEB., 1972											
28...	8.1	11	180	20	4.0	2.0	5.3	.8	15	7.4	6.6
MAR.											
31...	7.4	9.8	190	30	4.1	2.2	5.4	1.5	18	7.0	6.6
AUG.											
17...	5.3	8.6	170	30	4.5	2.2	7.1	4.4	18	7.0	9.2
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03)											
DEC., 1971											
28...	26	11	230	30	4.0	2.2	5.0	.7	18	5.6	6.0
MAR., 1972											
31...	28	10	240	180	7.6	1.8	70	3.4	16	23	120
AUG.											
17...	28	8.5	330	0	5.0	2.2	5.8	5.0	17	7.0	11
01307000 - CHAMPLIN CREEK AT ISLIP NY (LAT 40 44 13 LONG 073 12 08)											
MAR., 1972											
31...	7.2	10	280	440	9.0	2.6	13	2.0	21	21	17
AUG.											
15...	4.4	10	--	--	8.9	2.6	12	2.4	13	17	15

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
STREAMS ON LONG ISLAND											
01302500 - GLEN COVE CREEK AT GLEN COVE NY (LAT 40 51 48 LONG 073 38 05)											
OCT., 1971 08...	.1	.00	3.2	.010	.34	.070	118	63	27	194	7.0
APR., 1972 18...	.1	.45	3.1	.013	.15	.10	128	64	29	215	7.0
AUG. 15...	.1	.12	3.7	.064	.15	.085	123	65	31	202	6.9
01303500 - COLD SPRING BK AT COLD SPRING HARBOR NY (LAT 40 51 25 LONG 073 27 50)											
OCT., 1971 08...	.0	.87	1.3	.000	.30	.040	42	16	1	66	6.5
APR., 1972 18...	.1	.40	1.0	.007	.10	.019	46	17	4	75	7.0
AUG. 15...	.0	.77	1.1	.003	.35	.035	43	17	2	68	7.3
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN NY (LAT 40 50 58 LONG 073 13 29)											
OCT., 1971 08...	.0	.82	1.6	.010	.17	.16	45	18	6	81	6.5
APR., 1972 19...	.1	.62	1.5	.020	.10	.16	47	17	6	75	6.4
AUG. 17...	.0	1.1	2.7	.214	.22	.24	50	20	8	79	6.7
01304500 - PECONIC RIVER AT RIVERHEAD NY (LAT 40 59 49 LONG 072 41 14)											
NOV., 1971 12...	.0	1.2	1.4	.010	.18	.11	58	30	13	100	6.8
APR., 1972 19...	.1	.65	1.1	.015	.26	.057	51	24	17	93	6.3
AUG. 16...	.0	.99	1.5	.004	.39	.16	58	27	11	99	6.6
01305500 - SWAN RIVER AT EAST PATCHOGUE NY (LAT 40 46 01 LONG 072 59 39)											
OCT., 1971 13...	.0	.36	1.4	.000	.10	.020	52	21	7	87	6.9
APR., 1972 18...	.0	.58	1.9	.009	.15	.016	59	21	8	86	7.0
AUG. 16...	.0	.87	2.1	.020	.23	.042	55	23	10	87	7.3
01306000 - PATCHOGUE RIVER AT PATCHOGUE NY (LAT 40 45 56 LONG 073 01 16)											
NOV., 1971 17...	.1	.28	1.4	.010	.18	.030	62	26	12	102	6.9
APR., 1972 18...	.1	.85	2.1	.010	.15	.023	68	27	9	109	6.9
AUG. 16...	.0	.57	1.4	.005	.24	.037	57	26	10	103	7.1
18...	.0	.66	2.6	.010	.64	.040	76	29	13	124	7.0
01306495 - CONNETQUOT R DISTRIBUTARY NEAR OAKDALE NY (LAT 40 45 00 LONG 073 08 52)											
OCT., 1971 08...	.0	.23	.94	.010	.10	.020	46	19	3	67	6.8
FEB., 1972 28...	.0	.32	1.3	.005	.11	.020	49	18	6	70	6.9
MAR. 31...	.0	.12	1.2	.004	.10	.031	50	19	5	71	7.1
AUG. 17...	.0	.69	1.5	.003	.03	.023	56	20	6	86	7.0
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03)											
DEC., 1971 28...	.1	.22	1.1	.014	.03	.020	48	19	4	68	6.8
MAR., 1972 31...	.1	.44	1.3	.005	.10	.025	248	26	13	494	6.9
AUG. 17...	.0	.54	1.4	.003	.05	.026	57	22	8	91	6.9
01307000 - CHAMPLIN CREEK AT ISLIP NY (LAT 40 44 13 LONG 073 12 08)											
MAR., 1972 31...	.0	.37	3.1	.147	.60	.025	95	33	16	152	6.9
AUG. 15...	.0	.69	3.5	.000	.00	.074	88	33	22	146	6.9

CONTINUED NEXT PAGE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)
STREAMS ON LONG ISLAND--Continued											
01302500 - GLEN COVE CREEK AT GLEN COVE NY (LAT 40 51 48 LONG 073 38 05)											
OCT., 1971											
08...	13.5	8.5	--	--	.05	--	--	--	--	--	--
APR., 1972											
18...	--	--	2	.01	.07	1	100	90	0	0	0
AUG.											
15...	17.0	--	--	--	.04	2	--	--	--	--	--
01303500 - COLD SPRING BK AT COLD SPRING HARBOR NY (LAT 40 51 25 LONG 073 27 50)											
OCT., 1971											
08...	16.0	6.3	--	--	.37	--	--	--	--	--	--
APR., 1972											
18...	--	--	--	.00	.04	2	400	70	0	0	0
AUG.											
15...	22.0	--	--	--	.02	5	--	--	--	--	--
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN NY (LAT 40 50 58 LONG 073 13 29)											
OCT., 1971											
08...	15.0	8.3	--	--	.04	--	--	--	--	--	--
APR., 1972											
19...	--	--	2	.00	.03	4	0	0	0	0	0
AUG.											
17...	19.0	--	--	--	.04	2	--	--	--	--	--
01304500 - PECONIC RIVER AT RIVERHEAD NY (LAT 40 59 49 LONG 072 41 14)											
NOV., 1971											
12...	5.0	9.3	--	--	.03	--	--	--	--	--	--
APR., 1972											
19...	--	--	6	.00	.03	6	600	40	0	0	0
AUG.											
16...	21.0	--	--	--	.02	1	--	--	--	--	--
01305500 - SWAN RIVER AT EAST PATCHOGUE NY (LAT 40 46 01 LONG 072 59 39)											
OCT., 1971											
13...	12.5	9.2	--	--	.04	--	--	--	--	--	--
APR., 1972											
18...	--	--	1	.01	.05	2	0	60	0	0	1
AUG.											
16...	18.0	--	--	--	.02	6	--	--	--	--	--
01306000 - PATCHOGUE RIVER AT PATCHOGUE NY (LAT 40 45 56 LONG 073 01 16)											
NOV., 1971											
17...	7.0	7.6	--	--	.03	--	--	--	--	--	--
APR., 1972											
18...	--	--	0	.00	.05	1	0	100	0	0	0
AUG.											
16...	21.0	--	--	--	.02	3	--	--	--	--	--
18...	--	--	--	--	.03	3	--	--	--	--	--
01306495 - CONNETQUOT R DISTRIBUTARY NEAR OAKDALE NY (LAT 40 45 00 LONG 073 08 52)											
OCT., 1971											
08...	14.0	11.0	--	--	.03	--	--	--	--	--	--
FEB., 1972											
28...	7.0	8.4	--	--	.01	--	--	--	0	0	0
MAR.											
31...	--	--	--	.00	.02	0	0	0	0	0	1
AUG.											
17...	15.0	5.0	--	--	.03	6	--	--	--	--	--
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03)											
DEC., 1971											
28...	12.0	--	--	--	.04	--	--	--	0	0	2
MAR., 1972											
31...	--	--	--	.00	.04	1	0	90	0	0	0
AUG.											
17...	14.0	5.9	--	--	.03	8	--	--	--	--	--
01307000 - CHAMPLIN CREEK AT ISLIP NY (LAT 40 44 13 LONG 073 12 08)											
MAR., 1972											
31...	5.0	--	--	.01	.08	0	0	50	0	0	0
AUG.											
15...	18.0	5.7	--	--	.07	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
STREAMS ON LONG ISLAND--Continued										
01302500 - GLEN COVE CREEK AT GLEN COVE NY (LAT 40 51 48 LONG 073 38 05)										
OCT., 1971										
08...	--	--	--	--	--	--	--	--	--	--
APR., 1972										
18...	20	6	0	<.5	1	2	2	10	1.1	30
AUG.										
15...	0	2	--	<.5	--	--	--	--	--	--
01303500 - COLD SPRING BK AT COLD SPRING HARBOR NY (LAT 40 51 25 LONG 073 27 50)										
OCT., 1971										
08...	--	--	--	--	--	--	--	--	--	--
APR., 1972										
18...	0	2	0	<.5	0	1	2	0	1.1	0
AUG.										
15...	0	1	--	<.5	--	--	--	--	--	--
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN NY (LAT 40 50 58 LONG 073 13 29)										
OCT., 1971										
08...	--	--	--	--	--	--	--	--	--	--
APR., 1972										
19...	20	5	0	<.5	3	3	0	0	.6	0
AUG.										
17...	0	6	--	<.5	--	--	--	--	--	--
01304500 - PECONIC RIVER AT RIVERHEAD NY (LAT 40 59 49 LONG 072 41 14)										
NOV., 1971										
12...	--	--	--	--	--	--	--	--	--	--
APR., 1972										
19...	0	0	0	<.5	14	0	0	0	.0	30
AUG.										
16...	0	2	--	<.5	--	--	--	--	--	--
01305500 - SWAN RIVER AT EAST PATCHOGUE NY (LAT 40 46 01 LONG 072 59 39)										
OCT., 1971										
13...	--	--	--	--	--	--	--	--	--	--
APR., 1972										
18...	0	2	0	<.5	3	3	5	0	.6	20
AUG.										
1[illegible]...	0	2	--	<.5	--	--	--	--	--	--
01306000 - PATCHOGUE RIVER AT PATCHOGUE NY (LAT 40 45 56 LONG 073 01 16)										
NOV., 1971										
17...	--	--	--	--	--	--	--	--	--	--
APR., 1972										
18...	0	4	0	<.5	3	3	1	0	.6	20
AUG.										
16...	0	5	--	<.5	--	--	--	--	--	--
18...	0	4	--	<.5	--	--	--	--	--	--
01306495 - CONNETQUOT R DISTRIBUTARY NEAR OAKDALE NY (LAT 40 45 00 LONG 073 08 52)										
OCT., 1971										
08...	--	--	--	--	--	--	--	--	--	--
FEB., 1972										
28...	0	2	--	1.0	--	--	2	--	--	20
MAR.										
31...	20	2	0	<.5	2	2	1	0	.2	20
AUG.										
17...	0	2	--	<.5	--	--	--	--	--	--
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03)										
DEC., 1971										
28...	0	6	--	--	--	--	--	--	--	0
MAR., 1972										
31...	20	1	0	<.5	0	2	0	0	.2	0
AUG.										
17...	0	2	--	<.5	--	--	--	--	--	--
01307000 - CHAMPLIN CREEK AT ISLIP NY (LAT 40 44 13 LONG 073 12 08)										
MAR., 1972										
31...	0	2	0	<.5	3	1	0	0	.0	20
AUG.										
15...	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

STREAMS ON LONG ISLAND--Continued

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41)											
NOV., 1971 09...	5.1	11	810	820	12	3.3	33	3.1	20	19	55
DEC. 17...	5.6	10	720	760	17	3.3	30	5.3	24	22	48
JAN., 1972 24...	4.8	11	--	--	16	3.4	29	3.0	27	21	48
FEB. 23...	6.8	11	800	880	16	3.2	35	3.1	20	23	53
MAR. 31...	6.2	10	500	810	16	3.4	31	2.8	22	22	54
AUG. 24...	4.8	9.3	740	550	15	3.3	36	5.4	19	22	58
01308000 - SAMPAWAMS CREEK AT BABYLON NY (LAT 40 42 15 LONG 073 18 52)											
NOV., 1971 22...	4.6	6.7	270	400	12	3.1	16	4.1	26	26	18
22...	5.8	6.8	530	510	13	3.0	16	3.5	24	25	18
DEC. 19...	7.4	7.9	760	1000	12	3.0	16	3.7	14	27	19
JAN., 1972 24...	7.4	8.9	--	--	11	3.2	16	3.5	32	28	18
FEB. 23...	9.5	10	930	1300	11	3.0	22	3.7	12	28	33
MAR. 31...	11	8.5	900	1200	11	3.0	16	4.0	29	28	21
AUG. 24...	5.6	5.4	1100	190	12	3.0	18	7.2	18	30	22
01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31 LONG 073 19 44)											
NOV., 1971 09...	14	--	--	--	--	--	--	--	--	--	--
FEB., 1972 22...	30	7.5	550	640	9.5	2.6	25	2.8	9	22	34
MAR. 30...	22	7.2	420	1100	11	3.7	20	3.2	24	29	28
AUG. 18...	16	3.5	360	190	11	2.8	12	28	12	26	43
01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 20)											
NOV., 1971 08...	.78	9.2	810	850	12	3.8	25	4.1	31	32	32
DEC. 19...	--	7.8	3300	1500	22	4.4	23	4.3	48	46	32
JAN., 1972 24...	--	8.9	--	--	21	4.5	20	3.9	55	39	29
FEB. 22...	--	9.2	40	0	14	3.8	27	4.5	12	38	39
MAR. 30...	3.8	8.4	850	1400	14	3.8	30	4.5	40	43	35
01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58)											
OCT., 1971 07...	7.9	8.3	460	960	23	3.8	33	6.4	21	51	34
APR., 1972 17...	9.8	6.2	420	800	19	3.0	30	5.2	38	45	36
AUG. 17...	4.1	8.6	640	1300	22	3.4	31	5.5	45	46	34
01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46)											
OCT., 1971 07...	.24	5.5	420	330	26	4.9	37	8.2	54	45	46
APR., 1972 19...	5.8	10	80	1200	23	3.5	32	6.2	32	51	37
AUG. 17...	1.3	7.5	570	760	24	4.1	38	6.4	44	48	36
01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35)											
APR., 1972 19...	.29	8.0	1500	880	22	6.6	21	3.1	66	34	26
JUNE 07...	.31	6.6	2200	920	23	6.4	15	3.7	56	31	24
01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18)											
JUNE, 1972 07...	.02	3.1	670	320	15	4.2	15	4.5	40	15	27

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

STREAMS ON LONG ISLAND--Continued

01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
NOV., 1971 09...	.0	.43	4.1	.050	.86	.11	161	44	27	289	6.5
DEC. 17...	--	.58	4.9	.004	.47	.12	166	56	36	283	6.3
JAN., 1972 24...	.2	.34	4.5	.440	.11	.057	163	54	32	283	6.6
FEB. 23...	.0	.57	4.7	.002	.06	.036	173	53	37	308	6.6
MAR. 31...	.1	.40	5.0	.680	.04	.034	170	54	36	295	6.4
AUG. 24...	.0	.75	5.1	.009	.50	.15	177	51	35	313	6.9

01308000 - SAMPAWAMS CREEK AT BABYLON NY (LAT 40 42 15 LONG 073 18 52)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
NOV., 1971 22...	.5	.41	4.8	.040	1.4	.11	115	43	21	186	6.5
22...	.7	.36	4.3	.030	1.4	.020	112	45	25	183	6.6
DEC. 19...	.2	.42	5.5	.002	.21	.040	118	42	31	196	6.3
JAN., 1972 24...	.2	.55	5.8	.106	2.2	.000	122	41	14	200	6.5
FEB. 23...	.1	.82	6.5	.015	.99	.016	140	40	30	230	6.8
MAR. 31...	.1	.30	5.9	.950	.90	.032	127	40	16	200	6.4
AUG. 24...	.0	.66	4.9	.025	.31	.019	125	42	28	210	6.9

01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31 LONG 073 19 44)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
NOV., 1971 09...	--	.40	4.0	.020	1.2	.010	--	--	--	190	--
FEB., 1972 22...	.1	.40	4.2	.005	.06	.018	125	34	27	220	6.9
MAR. 30...	.1	.58	5.3	.036	1.6	.015	130	43	23	217	6.5
AUG. 18...	.0	.77	3.8	.003	.06	.035	146	39	29	280	6.7

01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 20)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
NOV., 1971 08...	.2	.90	4.9	.030	2.3	.010	143	46	20	231	6.6
DEC. 19...	.1	.70	1.7	.010	.82	.070	166	73	34	290	6.5
JAN., 1972 24...	.1	.88	3.1	.011	1.2	.021	161	71	26	271	6.5
FEB. 22...	.0	1.4	6.6	.200	.58	.002	164	51	41	285	6.6
MAR. 30...	.1	.58	6.3	.083	3.6	.014	173	51	18	292	6.3

01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
OCT., 1971 07...	.0	1.1	10	.143	2.3	.020	206	73	56	342	6.5
APR., 1972 17...	.4	1.2	--	.069	2.2	.066	192	60	29	322	6.2
AUG. 17...	.2	.33	9.5	.360	2.8	.022	205	69	32	346	6.5

01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
OCT., 1971 07...	.8	.77	6.5	.090	1.6	.080	221	85	41	389	6.9
APR., 1972 19...	.1	.27	12	.050	2.5	.023	224	72	46	327	6.5
AUG. 17...	.7	1.3	12	1.1	.70	.084	232	77	41	378	6.6

01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
APR., 1972 19...	.1	.51	1.3	.020	.22	.060	157	82	28	266	6.8
JUNE 07...	.1	1.3	2.7	.005	.03	.11	145	84	38	254	6.6

01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
JUNE, 1972 07...	.0	2.5	5.2	.015	1.2	.29	114	55	22	178	6.4

CONTINUED NEXT PAGE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)
STREAMS ON LONG ISLAND--Continued											
01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41)											
NOV., 1971 09...	10.0	7.5	--	--	.12	--	--	--	--	--	--
DEC. 17...	10.0	4.5	--	--	.11	--	--	--	--	--	--
JAN., 1972 24...	10.5	--	--	--	.11	--	--	--	--	--	--
FEB. 23...	8.0	8.5	--	--	.11	1	--	--	1	0	2
MAR. 31...	--	--	--	.00	.10	0	0	40	0	0	3
AUG. 24...	--	--	--	--	.08	2	--	--	--	--	--
01308000 - SAMPAWAMS CREEK AT BABYLON NY (LAT 40 42 15 LONG 073 18 52)											
NOV., 1971 22...	8.5	8.4	--	--	.22	--	--	--	--	--	--
22...	8.0	10.0	--	--	.24	--	--	--	--	--	--
DEC. 19...	8.5	3.0	--	--	.21	--	--	--	--	--	--
JAN., 1972 24...	10.0	--	--	--	.24	--	--	--	--	--	--
FEB. 23...	5.5	7.2	--	--	.29	3	--	--	4	0	1
MAR. 31...	--	--	--	.00	.23	1	0	120	0	0	0
AUG. 24...	--	--	--	--	.17	2	--	--	--	--	--
01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31 LONG 073 19 44)											
NOV., 1971 09...	5.0	--	--	--	--	--	--	--	--	--	--
FEB., 1972 22...	9.0	9.1	--	--	.17	6	--	--	0	0	0
MAR. 30...	--	--	--	.00	.15	0	0	100	1	0	2
AUG. 18...	--	--	--	--	.14	8	--	--	--	--	--
01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 20)											
NOV., 1971 08...	9.0	9.0	--	--	.20	--	--	--	--	--	--
DEC. 19...	10.0	3.0	--	--	.15	--	--	--	--	--	--
JAN., 1972 24...	--	--	--	--	.14	--	--	--	--	--	--
FEB. 22...	--	--	--	--	.28	3	--	--	0	0	8
MAR. 30...	--	--	--	.00	.23	0	0	180	0	0	2
01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58)											
OCT., 1971 07...	17.5	7.7	--	--	.25	--	--	--	--	--	--
APR., 1972 17...	--	--	8	.02	.20	1	400	150	0	0	1
AUG. 17...	17.0	--	--	--	.17	4	--	--	--	--	--
01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46)											
OCT., 1971 07...	14.0	5.9	--	--	.21	--	--	--	--	--	--
APR., 1972 19...	--	--	0	.02	.27	2	0	270	0	10	0
AUG. 17...	18.0	--	--	--	.16	5	--	--	--	--	--
01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35)											
APR., 1972 19...	--	--	4	.00	.12	8	0	60	0	10	8
JUNE 07...	16.0	--	--	--	.11	--	--	--	--	--	--
01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18)											
JUNE, 1972 07...	--	--	--	--	.12	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

STREAMS ON LONG ISLAND--Continued

01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41)

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV., 1971										
09...	--	--	--	--	--	--	--	--	--	--
DEC.										
17...	--	--	--	--	--	--	--	--	--	--
JAN., 1972										
24...	--	--	--	--	--	--	--	--	--	--
FEB.										
23...	0	17	--	<.5	--	--	4	--	--	40
MAR.										
31...	0	3	0	<.5	0	2	3	10	.2	40
AUG.										
24...	0	18	--	<.5	--	--	--	--	--	--

01308000 - SAMPAWAMS CREEK AT BABYLON NY (LAT 40 42 15 LONG 073 18 52)

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV., 1971										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
DEC.										
19...	--	--	--	--	--	--	--	--	--	--
JAN., 1972										
24...	--	--	--	--	--	--	--	--	--	--
FEB.										
23...	0	--	--	<.5	--	--	1	--	--	50
MAR.										
31...	0	6	0	<.5	9	3	7	0	.6	0
AUG.										
24...	0	10	--	<.5	--	--	--	--	--	--

01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31 LONG 073 19 44)

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV., 1971										
09...	--	--	--	--	--	--	--	--	--	--
FEB., 1972										
22...	0	18	--	<.8	--	--	10	--	--	40
MAR.										
30...	20	7	0	<.5	5	5	5	0	2.1	50
AUG.										
18...	0	8	--	<.5	--	--	--	--	--	--

01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 20)

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV., 1971										
08...	--	--	--	--	--	--	--	--	--	--
DEC.										
19...	--	--	--	--	--	--	--	--	--	--
JAN., 1972										
24...	--	--	--	--	--	--	--	--	--	--
FEB.										
22...	0	3	--	<.5	--	--	4	--	--	0
MAR.										
30...	20	4	0	<.5	8	6	2	10	.1	20

01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58)

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT., 1971										
07...	--	--	--	--	--	--	--	--	--	--
APR., 1972										
17...	10	23	0	<.5	2	2	4	10	.3	60
AUG.										
17...	0	5	--	<.5	--	--	--	--	--	--

01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46)

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT., 1971										
07...	--	--	--	--	--	--	--	--	--	--
APR., 1972										
19...	0	1	0	<.5	15	2	1	0	.0	70
AUG.										
17...	0	48	--	<.5	--	--	--	--	--	--

01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35)

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
APR., 1972										
19...	0	23	0	<.5	22	7	2	0	.8	120
JUNE										
07...	--	--	--	--	--	--	--	--	--	--

01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18)

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JUNE, 1972										
07...	--	--	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
BLIND BROOK BASIN											
01300000 - BLIND BROOK AT RYE NY (LAT 40 59 00 LONG 073 41 14)											
JUNE, 1972											
20...	1030	111	7.4	10	0	16	5.7	11	3.1	43	0
BEAVER SWAMP BROOK BASIN											
01300500 - BEAVER SWAMP BROOK AT MAMARONECK NY (LAT 40 57 21 LONG 073 43 07)											
JUNE, 1972											
20...	1145	145	5.8	660	110	13	3.6	10	3.2	32	0
22...	0015	190	6.4	540	80	13	3.8	10	3.2	31	0
MAMARONECK RIVER BASIN											
01301000 - MAMARONECK RIVER AT MAMARONECK NY (LAT 40 57 15 LONG 073 44 05)											
JUNE, 1972											
20...	0235	571	6.2	20	0	18	4.6	16	3.5	41	0
20...	1330	291	7.2	850	180	22	5.7	20	4.2	48	0
HUTCHINSON RIVER BASIN											
01301500 - HUTCHINSON RIVER AT PELHAM NY (LAT 40 54 51 LONG 073 48 55)											
JUNE, 1972											
19...	2230	178	3.1	350	120	23	6.8	12	3.1	61	0
BRONX RIVER BASIN											
01302000 - BRONX RIVER AT BRONXVILLE NY (LAT 40 56 10 LONG 073 50 10)											
JUNE, 1972											
21...	1230	224	9.3	10	0	39	12	26	4.1	91	0
HUDSON RIVER BASIN											
01312000 - HUDSON RIVER NEAR NEWCOMB NY (LAT 43 58 00 LONG 074 07 55)											
APR., 1972											
24...	1200	1170	7.2	150	20	5.5	.9	1.4	.2	8	0
01315500 - HUDSON RIVER AT NORTH CREEK NY (LAT 43 42 00 LONG 073 59 00)											
APR., 1972											
24...	1535	4070	6.4	110	0	5.1	.8	1.1	.2	9	0
01321000 - SACANDAGA RIVER NEAR HOPE NY (LAT 43 21 10 LONG 074 16 15)											
APR., 1972											
18...	1050	5470	5.6	120	20	3.8	.7	1.0	.2	4	0
01323000 - KENNYETTO CREEK NEAR BROADALBIN NY (LAT 43 03 57 LONG 074 09 48)											
MAY , 1972											
05...	1620	530	4.0	240	40	4.9	1.1	1.2	.3	9	0
01328000 - BOND CREEK AT DUNHAM BASIN NY (LAT 43 18 22 LONG 073 32 56)											
MAY , 1972											
04...	1600	354	7.2	--	--	35	7.6	4.7	4.1	102	0
A 01346000 - WEST CANADA CREEK AT KAST BRIDGE NY (LAT 43 04 25 LONG 074 59 24)											
MAY , 1972											
03...	1105	4550	4.2	290	60	15	1.3	1.1	.6	42	0
05...	1145	11500	4.0	560	120	17	.9	.9	.5	45	0
01349000 - OTSQUAGO CREEK AT FORT PLAIN NY (LAT 42 55 46 LONG 074 37 35)											
JUNE, 1972											
23...	1930	1600	4.4	--	--	40	5.5	4.1	3.3	111	0
01350000 - SCHOHARIE CREEK AT PRATTSVILLE NY (LAT 42 19 15 LONG 074 26 10)											
JUNE, 1972											
23...	1630	5480	3.0	660	150	4.8	1.5	1.3	.8	12	0

A Minor element analyses for this site on page 246.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
BLIND BROOK BASIN											
01300000 - BLIND BROOK AT RYE NY (LAT 40 59 00 LONG 073 41 14)											
JUNE, 1972											
20...	35	27	17	.1	1.4	115	63	28	197	7.6	16.0
BEAVER SWAMP BROOK BASIN											
01300500 - BEAVER SWAMP BROOK AT MAMARONECK NY (LAT 40 57 21 LONG 073 43 07)											
JUNE, 1972											
20...	26	22	15	.1	1.1	93	47	21	163	7.1	17.0
22...	25	23	18	.1	1.2	99	48	23	165	7.3	17.0
MAMARONECK RIVER BASIN											
01301000 - MAMARONECK RIVER AT MAMARONECK NY (LAT 40 57 15 LONG 073 44 05)											
JUNE, 1972											
20...	34	32	23	.1	1.0	128	64	30	228	7.0	17.0
20...	39	39	28	.1	1.2	155	78	39	275	7.5	17.0
HUTCHINSON RIVER BASIN											
01301500 - HUTCHINSON RIVER AT PELHAM NY (LAT 40 54 51 LONG 073 48 55)											
JUNE, 1972											
19...	50	32	22	.1	1.0	137	85	35	250	7.3	19.0
BRONX RIVER BASIN											
01302000 - BRONX RIVER AT BRONXVILLE NY (LAT 40 56 10 LONG 073 50 10)											
JUNE, 1972											
21...	75	48	48	.1	1.8	239	150	72	431	7.8	18.0
HUDSON RIVER BASIN											
01312000 - HUDSON RIVER NEAR NEWCOMB NY (LAT 43 58 00 LONG 074 07 55)											
APR., 1972											
24...	7	10	1.3	.1	.60	33	17	11	46	6.5	.5
01315500 - HUDSON RIVER AT NORTH CREEK NY (LAT 43 42 00 LONG 073 59 00)											
APR., 1972											
24...	7	8.5	1.0	.1	.50	30	16	9	42	6.7	3.0
01321000 - SACANDAGA RIVER NEAR HOPE NY (LAT 43 21 10 LONG 074 16 15)											
APR., 1972											
18...	3	8.4	.6	.1	.70	25	12	9	34	6.5	3.0
01323000 - KENNYETTO CREEK NEAR BROADALBIN NY (LAT 43 03 57 LONG 074 09 48)											
MAY , 1972											
05...	7	11	1.5	.1	.10	29	17	9	42	6.8	6.0
01328000 - BOND CREEK AT DUNHAM BASIN NY (LAT 43 18 22 LONG 073 32 56)											
MAY , 1972											
04...	84	23	12	.2	2.0	154	120	35	250	7.8	11.0
01346000 - WEST CANADA CREEK AT KAST BRIDGE NY (LAT 43 04 25 LONG 074 59 24)											
MAY , 1972											
03...	34	9.1	.9	.1	.70	56	43	8	94	7.6	8.0
05...	37	11	1.0	.1	.80	61	46	9	98	7.8	7.0
01349000 - OTSQUAGO CREEK AT FORT PLAIN NY (LAT 42 55 46 LONG 074 37 35)											
JUNE, 1972											
23...	91	27	15	.1	.80	158	120	31	223	8.0	18.0
01350000 - SCHOHARIE CREEK AT PRATTSVILLE NY (LAT 42 19 15 LONG 074 26 10)											
JUNE, 1972											
23...	10	11	1.8	.0	.30	31	18	8	44	7.3	13.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
HUDSON RIVER BASIN—Continued											
01350101 - SCHOHARIE CREEK AT GILBOA NY (LAT 42 23 51 LONG 074 27 02)											
OCT., 1971 29...	1100	4.0	5.2	260	50	46	10	46	1.7	220	0
MAR., 1972 03...	1700	4800	2.9	150	0	6.0	1.2	3.8	.8	11	0
APR. 21...	1210	4260	3.3	190	20	6.0	1.1	2.2	.4	12	0
JUNE 23...	1230	7980	2.7	330	80	8.6	1.2	3.0	.8	24	0
01350120 - PLATTER KILL AT GILBOA NY (LAT 42 24 19 LONG 074 26 38)											
OCT., 1971 29...	1300	3.5	4.6	130	0	21	2.8	3.9	.8	66	0
01350140 - MINE KILL NEAR NORTH BLENHEIM NY (LAT 42 25 41 LONG 074 28 22)											
OCT., 1971 29...	1400	3.8	4.0	70	0	15	3.0	5.0	1.2	52	0
01350350 - KEYSER KILL AT BREAKABEEN NY (LAT 42 31 23 LONG 074 24 38)											
OCT., 1971 29...	1330	.17	4.8	40	0	15	2.8	3.8	.9	48	0
DEC. 07...	1600	87	4.2	170	--	9.0	1.8	2.9	1.1	22	0
APR., 1972 21...	1415	138	4.5	240	--	7.5	1.4	2.0	.6	16	0
01350355 - SCHOHARIE CREEK AT BREAKABEEN NY (LAT 42 32 10 LONG 074 24 40)											
NOV., 1971 18...	0930	30	3.7	210	20	20	3.6	5.8	1.1	64	0
MAR., 1972 23...	1430	4050	3.7	310	40	8.0	1.3	3.1	1.1	16	0
APR. 21...	1330	6020	3.7	680	50	7.8	1.3	3.0	.8	16	0
JUNE 23...	1540	11750	3.1	--	--	8.5	1.4	2.4	.9	24	0
01351500 - SCHOHARIE CREEK AT BURTONSVILLE NY (LAT 42 48 00 LONG 074 15 48)											
JUNE, 1972 24...	1200	10700	3.8	2800	130	18	2.1	2.9	1.0	54	0
01359902 - COEYMANS CREEK AT SELKIRK NY (LAT 42 31 38 LONG 073 49 14)											
APR., 1972 20...	1515	646	5.3	5500	750	35	4.9	10	2.6	94	0
01361500 - CATSKILL CREEK AT OAK HILL NY (LAT 42 24 16 LONG 074 09 07)											
JUNE, 1972 24...	1130	864	5.0	--	--	12	2.8	3.0	1.4	38	0
01364500 - ESOPUS CREEK AT MOUNT MARION NY (LAT 42 02 16 LONG 073 58 21)											
JUNE, 1972 06...	1445	920	3.7	530	130	15	1.5	5.5	1.0	39	0
01365000 - RONDOUT CREEK NEAR LOWES CORNERS NY (LAT 41 51 55 LONG 074 29 10)											
MAY , 1972 31...	1330	530	2.5	330	50	3.0	.8	.8	.6	5	0
JUNE 22...	1900	3100	2.3	--	--	3.4	.8	.6	.7	4	0
01365500 - CHESTNUT CREEK AT GRAHAMSVILLE NY (LAT 41 50 42 LONG 074 32 27)											
MAY , 1972 31...	1350	370	2.5	570	200	4.2	1.0	3.1	1.1	5	0
JUNE 22...	2230	465	2.5	--	--	4.0	.9	2.5	.7	5	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
HUDSON RIVER BASIN--Continued											
01350101 - SCHOHARIE CREEK AT GILBOA NY (LAT 42 23 51 LONG 074 27 02)											
OCT., 1971 29...	180	26	27	.2	--	270	156	0	459	8.2	11.0
MAR., 1972 03...	9	10	5.4	.0	--	36	20	11	71	7.0	.0
APR. 21...	10	9.4	3.5	.0	.40	34	20	10	55	6.8	4.0
JUNE 23...	20	13	3.5	.0	.50	47	26	7	70	7.3	15.0
01350120 - PLATTER KILL AT GILBOA NY (LAT 42 24 19 LONG 074 26 38)											
OCT., 1971 29...	54	11	6.4	.0	.10	83	64	10	147	7.8	10.0
01350140 - MINE KILL NEAR NORTH BLENHEIM NY (LAT 42 25 41 LONG 074 28 22)											
OCT., 1971 29...	43	11	6.8	.0	.00	72	50	7	129	7.7	12.5
01350350 - KEYSER KILL AT BREAKABEEN NY (LAT 42 31 23 LONG 074 24 38)											
OCT., 1971 29...	39	11	4.5	.1	--	67	49	10	115	7.6	15.0
DEC. 07...	18	13	3.6	.0	.30	48	30	12	81	7.1	2.5
APR., 1972 21...	13	10	2.0	.1	.10	36	24	11	59	7.1	6.5
01350355 - SCHOHARIE CREEK AT BREAKABEEN NY (LAT 42 32 10 LONG 074 24 40)											
NOV., 1971 18...	52	17	7.5	.0	--	91	65	12	157	7.7	4.0
MAR., 1972 23...	13	15	4.5	.0	--	45	25	12	72	6.9	1.5
APR. 21...	13	10	4.4	.1	.50	41	25	12	68	6.8	4.5
JUNE 23...	20	12	2.8	.0	.20	44	27	7	70	7.5	19.0
01351500 - SCHOHARIE CREEK AT BURTONSVILLE NY (LAT 42 48 00 LONG 074 15 48)											
JUNE, 1972 24...	44	16	3.0	.0	.40	75	54	9	--	7.9	--
01359902 - COEYMANS CREEK AT SELKIRK NY (LAT 42 31 38 LONG 073 49 14)											
APR., 1972 20...	77	34	17	.1	.70	158	110	30	265	7.5	--
01361500 - CATSKILL CREEK AT OAK HILL NY (LAT 42 24 16 LONG 074 09 07)											
JUNE, 1972 24...	31	14	2.7	.0	.50	62	41	10	97	7.7	14.0
01364500 - ESOPUS CREEK AT MOUNT MARION NY (LAT 42 02 16 LONG 073 58 21)											
JUNE, 1972 06...	32	15	8.0	.1	.50	71	44	12	125	7.3	18.0
01365000 - RONDOUT CREEK NEAR LOWES CORNERS NY (LAT 41 51 55 LONG 074 29 10)											
MAY , 1972 31...	4	8.3	1.3	.1	.05	20	11	7	32	6.1	13.0
JUNE 22...	3	12	.7	.1	.20	23	12	9	34	5.6	--
01365500 - CHESTNUT CREEK AT GRAHAMSVILLE NY (LAT 41 50 42 LONG 074 32 27)											
MAY , 1972 31...	4	9.6	4.3	.1	1.2	34	15	11	56	6.0	13.0
JUNE 22...	4	12	3.2	.1	.30	30	14	10	46	6.2	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
HUDSON RIVER BASIN--Continued											
01366650 - SANDBURG CREEK AT ELLENVILLE NY (LAT 41 42 54 LONG 074 23 21)											
MAY , 1972 31...	1755	2410	3.3	1700	360	4.8	1.2	1.2	1.0	10	0
JUNE 23...	0015	2900	3.5	--	--	5.0	1.4	1.4	.9	10	0
01367500 - RONDOUT CREEK AT ROSENDALE NY (LAT 41 50 35 LONG 074 05 10)											
JUNE, 1972 23...	0745	14200	3.2	--	--	7.5	1.2	1.5	1.0	17	0
01368000 - WALLKILL R NR UNIONVILLE NY(OWEN NJ) (LAT 41 15 36 LONG 074 32 56)											
FEB., 1972 01...	1530	120	--	--	--	33	12	--	--	116	0
JUNE 14...	1145	209	6.7	--	--	33	10	9.2	1.4	122	0
JULY 12...	1215	134	--	--	--	36	12	--	--	138	0
SEP. 18...	0910	34	6.0	--	--	53	19	14	2.1	184	0
01369500 - QUAKER CREEK AT FLORIDA NY (LAT 41 20 20 LONG 074 21 45)											
JUNE, 1972 01...	1700	139	3.9	540	90	16	3.5	3.4	2.1	45	0
01372065 - CASPER CREEK NEAR WAPPINGERS FALLS NY (LAT 41 37 54 LONG 073 55 40)											
MAR., 1972 30...	0930	19	4.5	110	30	64	18	37	2.6	185	0
JUNE 01...	1000	96	5.4	860	310	38	8.9	21	2.0	112	0
01372200 - WAPPINGER CREEK NEAR CLINTON CORNERS NY (LAT 41 48 55 LONG 073 45 50)											
JUNE, 1972 01...	1345	550	6.1	290	60	25	7.0	3.8	1.0	91	0
01372300 - LITTLE WAPPINGER CREEK AT SALT POINT NY (LAT 41 48 20 LONG 073 47 35)											
MAR., 1972 31...	1310	68	4.8	140	60	24	5.3	4.5	.6	71	0
JUNE 01...	1325	270	6.2	500	40	20	3.5	3.6	.8	57	0
01373800 - MOODNA CREEK AT MOUNTAINVILLE NY (LAT 41 24 33 LONG 074 04 26)											
AUG., 1972 14...	1130	36	4.2	220	170	35	6.9	17	1.1	107	0
01375000 - CROTON R AT DAM NEAR CROTON-ON-HUDSON NY (LAT 41 13 30 LONG 073 51 35)											
JUNE, 1972 21...	1630	2460	1.9	10	0	17	5.5	7.5	1.2	52	0
01376500 - SAW MILL RIVER AT YONKERS NY (LAT 40 56 11 LONG 073 53 12)											
JUNE, 1972 20...	0600	623	5.9	1800	160	19	5.0	12	4.3	50	0
HACKENSACK RIVER BASIN											
01377180 - PASCACK BROOK AT SPRING VALLEY NY (LAT 41 06 45 LONG 074 02 00)											
JUNE, 1972 22...	1900	157	5.0	--	--	16	2.9	4.8	1.8	42	0
DELAWARE RIVER BASIN											
01425665 - OQUAGA CREEK AT ARCTIC NY (LAT 42 11 05 LONG 075 25 27)											
JULY, 1972 11...	1150	.73	3.7	270	0	5.0	1.1	1.4	.1	15	0
SEP. 14...	1130	.14	4.0	80	0	6.8	1.5	1.9	.8	21	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
HUDSON RIVER BASIN--Continued											
01366650 - SANDBURG CREEK AT ELLENVILLE NY (LAT 41 42 54 LONG 074 23 21)											
MAY , 1972 31...	8	10	1.1	.1	.40	29	17	9	44	6.6	14.0
JUNE 23...	8	14	1.5	.0	.20	33	18	10	45	6.4	--
01367500 - RONDOUT CREEK AT ROSENDALE NY (LAT 41 50 35 LONG 074 05 10)											
JUNE, 1972 23...	14	15	1.8	.0	.30	41	24	10	60	6.8	--
01368000 - WALLKILL R NR UNIONVILLE NY(OWEN NJ) (LAT 41 15 36 LONG 074 32 56)											
FEB., 1972 01...	95	32	23	--	1.5	--	132	37	327	8.3	.6
JUNE 14...	100	23	19	.1	1.0	163	120	20	297	7.2	18.0
JULY 12...	113	22	20	--	.80	--	140	27	339	6.5	24.0
SEP. 18...	151	33	27	.2	1.2	250	211	60	433	8.1	21.0
01369500 - QUAKER CREEK AT FLORIDA NY (LAT 41 20 20 LONG 074 21 45)											
JUNE, 1972 01...	37	19	4.5	.1	1.4	81	54	17	138	7.0	20.0
01372065 - CASPER CREEK NEAR WAPPINGERS FALLS NY (LAT 41 37 54 LONG 073 55 40)											
MAR., 1972 30...	152	54	71	.1	1.9	--	230	82	630	7.9	5.0
JUNE 01...	92	28	36	.1	.90	198	130	40	357	7.7	17.0
01372200 - WAPPINGER CREEK NEAR CLINTON CORNERS NY (LAT 41 48 55 LONG 073 45 50)											
JUNE, 1972 01...	75	19	5.5	.1	.60	115	91	17	200	7.7	16.5
01372300 - LITTLE WAPPINGER CREEK AT SALT POINT NY (LAT 41 48 20 LONG 073 47 35)											
MAR., 1972 31...	58	19	6.9	.1	.40	--	82	24	182	7.9	5.0
JUNE 01...	47	13	4.6	.1	.30	81	64	18	138	7.5	16.5
01373800 - MOODNA CREEK AT MOUNTAINVILLE NY (LAT 41 24 33 LONG 074 04 26)											
AUG., 1972 14...	88	19	33	.1	.19	--	120	28	316	8.0	20.0
01375000 - CROTON R AT DAM NEAR CROTON-ON-HUDSON NY (LAT 41 13 30 LONG 073 51 35)											
JUNE, 1972 21...	43	16	15	.1	.30	91	65	22	175	7.3	21.0
01376500 - SAW MILL RIVER AT YONKERS NY (LAT 40 56 11 LONG 073 53 12)											
JUNE, 1972 20...	41	27	19	.1	1.2	122	68	27	211	7.3	17.0
HACKENSACK RIVER BASIN											
01377180 - PASCACK BROOK AT SPRING VALLEY NY (LAT 41 06 45 LONG 074 02 00)											
JUNE, 1972 22...	34	19	6.4	.1	.40	78	52	17	124	7.1	--
DELAWARE RIVER BASIN											
01425665 - OOUAGA CREEK AT ARCTIC NY (LAT 42 11 05 LONG 075 25 27)											
JULY, 1972 11...	12	8.5	.5	.1	.03	28	17	5	44	6.9	18.0
SEP. 14...	17	7.5	1.2	.1	.06	--	23	6	59	7.5	15.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
DELAWARE RIVER BASIN--Continued											
01425670 - OOUAGA CREEK TRIBUTARY AT ARCTIC NY (LAT 42 10 56 LONG 075 25 16)											
JULY, 1972											
11...	1300	1.5	3.7	260	0	6.0	1.4	2.5	.4	20	0
SEP.											
14...	1255	1.3	3.6	610	70	9.2	2.6	4.0	1.1	37	0
01436500 - NEVERSINK RIVER AT WOODBOURNE NY (LAT 41 45 24 LONG 074 35 52)											
JUNE, 1972											
23...	0700	4960	2.0	400	180	3.1	.7	1.0	.4	4	0
01437000 - NEVERSINK RIVER AT OAKLAND VALLEY NY (LAT 41 29 45 LONG 074 38 45)											
JUNE, 1972											
02...	1115	1310	2.8	60	0	4.9	1.0	2.4	.7	7	0
01437500 - NEVERSINK RIVER AT GODEFFROY NY (LAT 41 26 30 LONG 074 36 10)											
JUNE, 1972											
02...	1430	2050	2.7	390	80	5.1	1.3	3.1	.9	9	0
23...	1115	8520	2.4	--	--	3.6	.8	1.4	.5	6	0
SUSQUEHANNA RIVER BASIN											
01500000 - OULEOUT CREEK AT EAST SIDNEY NY (LAT 42 20 00 LONG 075 14 05)											
MAR., 1972											
04...	1655	1140	2.4	500	140	5.5	1.3	2.3	2.6	9	0
01500980 - BEAVER CREEK NEAR SOUTH EDMESTON NY (LAT 42 43 36 LONG 075 18 10)											
JUNE, 1972											
08...	1625	45	2.5	280	20	21	1.7	2.2	.5	61	0
01501510 - GREAT BROOK AT HOLMESVILLE NY (LAT 42 31 08 LONG 075 23 55)											
JUNE, 1972											
08...	1840	27	1.7	100	0	13	2.0	3.1	.8	38	0
01502680 - BIG BROOK NEAR BENNETTSVILLE NY (LAT 42 15 40 LONG 075 28 25)											
JUNE, 1972											
08...	1715	27	1.8	70	0	6.4	1.7	3.2	1.0	18	0
01502710 - WYLIE BROOK AT HARPURSVILLE NY (LAT 42 11 26 LONG 075 37 02)											
JUNE, 1972											
08...	1600	19	2.3	150	10	6.9	1.6	2.9	.7	15	0
01502712 - BELDEN BROOK AT HARPURSVILLE NY (LAT 42 10 50 LONG 075 37 26)											
JUNE, 1972											
08...	1500	7.2	3.9	80	0	8.8	2.1	6.2	1.2	24	0
01502720 - SAGE CREEK AT QUAQUAGA NY (LAT 42 07 04 LONG 075 39 22)											
JUNE, 1972											
08...	1400	12	4.1	270	0	6.0	1.5	2.7	.6	15	0
01502730 - OCCANUM CREEK AT WINDSOR NY (LAT 42 04 54 LONG 075 38 26)											
JUNE, 1972											
08...	1200	8.3	3.5	100	20	6.9	1.9	6.5	.9	19	0
01502740 - TUSCARORA CREEK AT DAMASCUS NY (LAT 42 03 20 LONG 075 36 46)											
JUNE, 1972											
08...	1300	8.9	4.4	100	0	6.0	1.9	3.7	.7	16	0
01503300 - PARK CREEK NEAR BINGHAMTON NY (LAT 42 05 38 LONG 075 48 29)											
JUNE, 1972											
08...	1100	9.2	3.3	80	0	12	2.9	8.8	1.2	32	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
DELAWARE RIVER BASIN--Continued											
01425670 - OOUAGA CREEK TRIBUTARY AT ARCTIC NY (LAT 42 10 56 LONG 075 25 16)											
JULY, 1972											
11...	16	8.9	2.0	.1	.05	35	21	4	60	7.0	17.0
SEP.											
14...	30	9.5	2.5	.1	.07	--	34	3	93	7.5	15.0
01436500 - NEVERSINK RIVER AT WOODBOURNE NY (LAT 41 45 24 LONG 074 35 52)											
JUNE, 1972											
23...	3	9.0	1.7	.0	.40	22	11	7	36	6.0	--
01437000 - NEVERSINK RIVER AT OAKLAND VALLEY NY (LAT 41 29 45 LONG 074 38 45)											
JUNE, 1972											
02...	6	12	3.5	.1	.20	32	16	11	49	6.3	14.5
01437500 - NEVERSINK RIVER AT GODEFFROY NY (LAT 41 26 30 LONG 074 36 10)											
JUNE, 1972											
02...	7	12	4.5	.1	.50	36	18	11	57	6.4	16.0
23...	5	11	1.8	.0	.40	26	12	7	39	5.9	--
SUSQUEHANNA RIVER BASIN											
01500000 - OULEOUT CREEK AT EAST SIDNEY NY (LAT 42 20 00 LONG 075 14 05)											
MAR., 1972											
04...	7	11	4.1	.1	1.3	39	19	12	64	6.7	1.0
01500980 - BEAVER CREEK NEAR SOUTH EDMESTON NY (LAT 42 43 36 LONG 075 18 10)											
JUNE, 1972											
08...	50	10	2.2	.0	.20	71	59	9	129	7.5	16.5
01501510 - GREAT BROOK AT HOLMESVILLE NY (LAT 42 31 08 LONG 075 23 55)											
JUNE, 1972											
08...	31	11	3.4	.0	.20	55	41	10	101	7.3	15.0
01502680 - BIG BROOK NEAR BENNETTSVILLE NY (LAT 42 15 40 LONG 075 28 25)											
JUNE, 1972											
08...	15	10	2.8	.0	.10	36	23	8	70	7.1	17.0
01502710 - WYLIE BROOK AT HARPURSVILLE NY (LAT 42 11 26 LONG 075 37 02)											
JUNE, 1972											
08...	12	11	3.5	.0	.40	38	24	12	70	7.0	17.0
01502712 - BELDEN BROOK AT HARPURSVILLE NY (LAT 42 10 50 LONG 075 37 26)											
JUNE, 1972											
08...	20	13	7.6	.1	.10	55	31	11	100	7.3	17.0
01502720 - SAGE CREEK AT OUAQUAGA NY (LAT 42 07 04 LONG 075 39 22)											
JUNE, 1972											
08...	12	11	1.8	.1	.02	35	21	9	62	7.1	15.5
01502730 - OCCANUM CREEK AT WINDSOR NY (LAT 42 04 54 LONG 075 38 26)											
JUNE, 1972											
08...	16	12	7.6	.1	.00	49	25	9	90	7.2	15.5
01502740 - TUSCARORA CREEK AT DAMASCUS NY (LAT 42 03 20 LONG 075 36 46)											
JUNE, 1972											
08...	13	13	4.0	.1	.04	42	23	10	73	6.9	15.0
01503300 - PARK CREEK NEAR BINGHAMTON NY (LAT 42 05 38 LONG 075 48 29)											
JUNE, 1972											
08...	26	15	13	.1	.10	72	42	16	138	7.3	15.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
SUSQUEHANNA RIVER BASIN--Continued											
01503980 - CHENANGO RIVER AT EATON NY (LAT 42 51 02 LONG 075 36 21)											
JUNE, 1972 08...	1005	55	2.9	60	0	53	8.5	7.0	1.0	180	0
01504780 - SANGERFIELD RIVER NEAR EARLVILLE NY (LAT 42 43 05 LONG 075 32 26)											
JUNE, 1972 08...	1200	175	6.3	430	40	39	4.3	2.5	.8	119	0
01504900 - HANDSOME BROOK AT SHERBURNE NY (LAT 42 41 26 LONG 075 30 15)											
JUNE, 1972 08...	1330	63	3.1	120	0	19	2.2	2.3	.6	53	0
01505020 - COLD BROOK NEAR NORTH NORWICH NY (LAT 42 35 39 LONG 075 31 48)											
JUNE, 1972 09...	1445	11	3.1	180	10	31	4.7	2.3	.6	102	0
01505920 - MILL BROOK NEAR OXFORD NY (LAT 42 25 44 LONG 075 37 26)											
JUNE, 1972 09...	0855	30	3.1	220	0	12	1.4	2.4	.4	30	0
01505950 - BOWMAN CREEK NEAR TYNER NY (LAT 42 24 11 LONG 075 38 08)											
JUNE, 1972 09...	0955	60	3.0	210	0	9.0	1.2	1.5	.3	20	0
01506300 - WHEELER BROOK NEAR BRISBEN NY (LAT 42 20 43 LONG 075 42 38)											
JUNE, 1972 09...	1200	9.3	2.9	50	0	24	2.6	3.7	.6	64	0
01506350 - TILLOTSON CREEK NEAR BRISBEN NY (LAT 42 21 16 LONG 075 42 50)											
JUNE, 1972 09...	1255	17	4.0	390	30	9.8	1.5	1.8	.5	26	0
01506400 - SPRING BROOK NEAR BRISBEN NY (LAT 42 21 01 LONG 075 43 58)											
JUNE, 1972 09...	1110	37	4.0	210	20	8.0	1.2	1.8	.4	18	0
01507490 - POND BROOK AT SMITHVILLE FLATS NY (LAT 42 23 48 LONG 075 48 31)											
JUNE, 1972 09...	1345	12	2.1	250	40	7.2	1.2	2.6	.6	15	0
01508200 - LABRADOR CREEK AT TRUXTON NY (LAT 42 42 43 LONG 076 01 51)											
JUNE, 1972 15...	1210	16	3.1	670	90	22	2.8	3.1	.4	66	0
01508400 - CHENINGO CREEK NEAR TRUXTON NY (LAT 42 40 43 LONG 076 02 47)											
JUNE, 1972 15...	1310	30	2.1	820	60	14	2.2	2.2	.6	39	0
01508700 - COLD BROOK AT LITTLE YORK NY (LAT 42 41 08 LONG 076 10 11)											
JUNE, 1972 15...	1100	22	2.6	200	20	24	3.5	2.2	.5	76	0
01509020 - TROUT BROOK NEAR BLODGETT MILLS NY (LAT 42 35 09 LONG 076 07 47)											
JUNE, 1972 15...	1200	33	1.3	60	0	20	3.8	5.0	1.0	58	0
01509200 - GRIDLEY CREEK AT MESSENGERVILLE NY (LAT 42 29 19 LONG 076 04 26)											
JUNE, 1972 15...	1300	12	2.6	60	0	24	4.0	4.6	.9	79	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
SUSQUEHANNA RIVER BASIN--Continued											
01503980 - CHENANGO RIVER AT EATON NY (LAT 42 51 02 LONG 075 36 21)											
JUNE, 1972 08...	148	14	10	.1	1.0	189	170	20	345	8.0	13.0
01504780 - SANGERFIELD RIVER NEAR EARLVILLE NY (LAT 42 43 05 LONG 075 32 26)											
JUNE, 1972 08...	98	14	3.9	.1	.70	131	120	17	230	7.7	15.5
01504900 - HANDSOME BROOK AT SHERBURNE NY (LAT 42 41 26 LONG 075 30 15)											
JUNE, 1972 08...	43	12	2.4	.1	.30	69	56	13	125	7.6	13.5
01505020 - COLD BROOK NEAR NORTH NORWICH NY (LAT 42 35 39 LONG 075 31 48)											
JUNE, 1972 08...	84	12	2.6	.0	.50	109	97	13	200	7.9	15.5
01505920 - MILL BROOK NEAR OXFORD NY (LAT 42 25 44 LONG 075 37 26)											
JUNE, 1972 09...	25	9.7	2.4	.0	.20	47	36	11	84	7.6	14.0
01505950 - BOWMAN CREEK NEAR TYNER NY (LAT 42 24 11 LONG 075 38 08)											
JUNE, 1972 09...	16	9.5	1.5	.0	.20	37	27	11	64	7.1	14.5
01506300 - WHEELER BROOK NEAR BRISBEN NY (LAT 42 20 43 LONG 075 42 38)											
JUNE, 1972 09...	52	13	5.9	.1	.70	87	71	18	162	7.8	14.0
01506350 - TILLOTSON CREEK NEAR BRISBEN NY (LAT 42 21 16 LONG 075 42 50)											
JUNE, 1972 09...	21	10	1.4	.1	.30	43	31	9	76	6.9	16.0
01506400 - SPRING BROOK NEAR BRISBEN NY (LAT 42 21 01 LONG 075 43 58)											
JUNE, 1972 09...	15	10	1.5	.0	.20	37	25	10	63	7.1	14.5
01507490 - POND BROOK AT SMITHVILLE FLATS NY (LAT 42 23 48 LONG 075 48 31)											
JUNE, 1972 09...	12	10	3.5	.1	.30	36	23	11	66	6.7	18.0
01508200 - LABRADOR CREEK AT TRUXTON NY (LAT 42 42 43 LONG 076 01 51)											
JUNE, 1972 15...	54	12	3.8	.0	.30	81	66	12	147	7.4	26.0
01508400 - CHENINGO CREEK NEAR TRUXTON NY (LAT 42 40 43 LONG 076 02 47)											
JUNE, 1972 15...	32	10	2.5	.1	.40	55	44	12	99	7.3	21.0
01508700 - COLD BROOK AT LITTLE YORK NY (LAT 42 41 08 LONG 076 10 11)											
JUNE, 1972 15...	62	11	2.8	.0	.40	86	74	12	158	7.8	20.0
01509020 - TROUT BROOK NEAR BLODGETT MILLS NY (LAT 42 35 09 LONG 076 07 47)											
JUNE, 1972 15...	48	13	7.5	.0	.70	83	66	18	154	7.7	20.0
01509200 - GRIDLEY CREEK AT MESSENGERVILLE NY (LAT 42 29 19 LONG 076 04 26)											
JUNE, 1972 15...	65	12	6.2	.1	.20	94	76	12	175	8.0	18.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
SUSQUEHANNA RIVER BASIN—Continued											
01509400 - JENNINGS CREEK AT KILLAWOG NY (LAT 42 25 05 LONG 076 01 17)											
MAY , 1972 30...	1625	5.5	.6	30	0	25	3.6	4.0	1.8	77	0
01509900 - POND CREEK AT TAYLOR NY (LAT 42 34 01 LONG 075 53 33)											
JUNE, 1972 15...	1010	6.9	2.9	190	20	10	2.0	2.6	.9	26	0
01511600 - HALFWAY BROOK NEAR ITASKA NY (LAT 42 17 04 LONG 075 53 23)											
MAY , 1972 30...	1530	4.4	1.5	130	0	11	2.0	3.4	1.3	28	0
01512500 - CHENANGO RIVER NEAR CHENANGO FORKS NY (LAT 42 13 05 LONG 075 50 55)											
JUNE, 1972 24...	1700	19300	4.2	1300	120	17	1.4	1.9	1.2	49	0
01512550 - PAGE BROOK NEAR PORT CRANE NY (LAT 42 11 53 LONG 075 49 31)											
MAY , 1972 30...	1350	10	2.1	90	0	17	2.8	4.3	1.2	48	0
01512650 - OSBORNE CREEK AT PORT CRANE NY (LAT 42 10 06 LONG 075 49 47)											
MAY , 1972 30...	1255	4.0	1.0	40	0	9.5	2.5	5.7	1.5	26	0
01512780 - THOMAS CREEK AT CHENANGO BRIDGE NY (LAT 42 10 08 LONG 075 52 56)											
MAY , 1972 30...	1205	10	1.0	680	230	41	6.8	6.8	.7	130	0
01513100 - FULLER HOLLOW CREEK AT JOHNSON CITY NY (LAT 42 05 48 LONG 075 57 56)											
JUNE, 1972 08...	0945	2.5	5.3	220	40	30	5.3	9.3	1.1	78	0
01513400 - PATTERSON CREEK AT ENDWELL NY (LAT 42 06 48 LONG 076 01 13)											
MAY , 1972 30...	1020	.74	2.8	70	0	27	5.3	15	1.8	80	0
A 01513500 - SUSQUEHANNA RIVER AT VESTAL NY (LAT 42 05 30 LONG 076 03 25)											
JUNE, 1972 23...	1400	49600	3.6	2100	210	11	1.9	2.5	1.3	31	0
01513810 - TRACY CREEK NEAR VESTAL NY (LAT 42 04 02 LONG 076 06 11)											
MAY , 1972 30...	1530	1.2	4.7	50	0	13	3.2	6.5	1.8	44	0
01513820 - APALACHIN CREEK AT APALACHIN NY (LAT 42 03 44 LONG 076 08 57)											
MAY , 1972 30...	1410	8.7	2.6	60	0	11	3.0	4.8	1.5	29	0
01513830 - LITTLE NANTICOKE CREEK NEAR OWEGO NY (LAT 42 05 32 LONG 076 13 02)											
MAY , 1972 30...	1245	3.1	2.4	50	0	12	3.3	5.3	1.7	30	0
01513910 - WILSON CREEK NEAR NEWARK VALLEY NY (LAT 42 14 36 LONG 076 10 41)											
MAY , 1972 30...	1140	4.4	2.2	280	30	8.5	2.5	3.3	1.6	23	0
01513990 - DOOLITTLE CREEK AT WELTONVILLE NY (LAT 42 11 43 LONG 076 14 51)											
MAY , 1972 30...	1040	28	1.2	110	0	22	4.1	3.2	1.0	66	0

A Minor element analyses for this site on page 246.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
SUSQUEHANNA RIVER BASIN--Continued											
01509400 - JENNINGS CREEK AT KILLAWOG NY (LAT 42 25 05 LONG 076 01 17)											
MAY , 1972 30...	63	14	6.2	.1	.50	95	77	14	178	8.2	9.0
01509900 - POND CREEK AT TAYLOR NY (LAT 42 34 01 LONG 075 53 33)											
JUNE, 1972 15...	21	11	3.6	.0	.70	49	33	12	88	7.3	15.5
01511600 - HALFWAY BROOK NEAR ITASKA NY (LAT 42 17 04 LONG 075 53 23)											
MAY , 1972 30...	23	13	4.9	.1	.20	52	36	13	97	7.4	9.0
01512500 - CHENANGO RIVER NEAR CHENANGO FORKS NY (LAT 42 13 05 LONG 075 50 55)											
JUNE, 1972 24...	40	11	2.2	.1	.50	65	48	8	114	7.3	--
01512550 - PAGE BROOK NEAR PORT CRANE NY (LAT 42 11 53 LONG 075 49 31)											
MAY , 1972 30...	39	14	7.2	.1	.40	74	54	15	140	7.8	11.0
01512650 - OSBORNE CREEK AT PORT CRANE NY (LAT 42 10 06 LONG 075 49 47)											
MAY , 1972 30...	21	18	7.6	.1	.10	59	34	13	108	8.2	6.0
01512780 - THOMAS CREEK AT CHENANGO BRIDGE NY (LAT 42 10 08 LONG 075 52 56)											
MAY , 1972 30...	107	18	14	.1	.20	153	130	24	284	7.5	10.0
01513100 - FULLER HOLLOW CREEK AT JOHNSON CITY NY (LAT 42 05 48 LONG 075 57 56)											
JUNE, 1972 08...	64	28	15	.1	.20	133	97	33	239	7.7	16.0
01513400 - PATTERSON CREEK AT ENDWELL NY (LAT 42 06 48 LONG 076 01 13)											
MAY , 1972 30...	66	25	22	.1	.09	139	89	24	257	7.9	9.0
01513500 - SUSQUEHANNA RIVER AT VESTAL NY (LAT 42 05 30 LONG 076 03 25)											
JUNE, 1972 23...	25	15	3.3	.0	.60	56	35	10	90	6.8	15.0
01513810 - TRACY CREEK NEAR VESTAL NY (LAT 42 04 02 LONG 076 06 11)											
MAY , 1972 30...	36	17	6.5	.1	.00	74	46	10	135	7.8	20.0
01513820 - APALACHIN CREEK AT APALACHIN NY (LAT 42 03 44 LONG 076 08 57)											
MAY , 1972 30...	24	16	7.8	.1	.30	62	40	16	114	7.3	20.0
01513830 - LITTLE NANTICOKE CREEK NEAR OWEGO NY (LAT 42 05 32 LONG 076 13 02)											
MAY , 1972 30...	25	19	8.5	.1	.70	70	44	19	129	7.3	17.0
01513910 - WILSON CREEK NEAR NEWARK VALLEY NY (LAT 42 14 36 LONG 076 10 41)											
MAY , 1972 30...	19	13	4.9	.1	.50	56	32	13	90	6.9	17.0
01513990 - DOOLITTLE CREEK AT WELTONVILLE NY (LAT 42 11 43 LONG 076 14 51)											
MAY , 1972 30...	54	13	5.6	.1	.80	86	72	18	161	7.8	15.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
SUSQUEHANNA RIVER BASIN--Continued											
01514000 - OWEGO CREEK NEAR OWEGO NY (LAT 42 07 40 LONG 076 16 17)											
JUNE, 1972											
22...	1845	7770	4.1	2800	150	7.0	1.7	1.9	1.3	16	0
27...	1110	772	5.3	--	--	18	3.5	7.6	1.0	52	0
01514880 - PIPE CREEK AT TIOGA CENTER NY (LAT 42 03 34 LONG 076 20 45)											
JUNE, 1972											
15...	1245	8.9	1.8	110	0	18	3.9	4.2	1.5	59	0
01514900 - WAPPASENING CREEK AT NICHOLS NY (LAT 42 01 17 LONG 076 21 45)											
JUNE, 1972											
09...	1130	39	1.2	50	0	9.0	3.2	4.2	1.6	26	0
01514950 - ELLIS CREEK NEAR BARTON NY (LAT 42 00 30 LONG 076 28 52)											
JUNE, 1972											
09...	1030	6.4	2.7	40	0	12	3.3	3.6	1.3	36	0
B 01515000 - SUSQUEHANNA RIVER NEAR WAVERLY NY (LAT 41 59 05 LONG 076 30 05)											
JUNE, 1972											
24...	1650	82100	4.3	940	140	12	2.1	2.5	1.3	32	0
29...	1140	18500	4.6	3000	150	20	2.9	3.8	1.0	57	0
01520500 - TIOGA RIVER AT LINDLEY NY (LAT 42 01 44 LONG 077 07 57)											
JUNE, 1972											
24...	1700	8280	5.6	--	--	17	4.5	3.8	2.0	10	0
01521500 - CANISTEO RIVER AT ARKPORT NY (LAT 42 23 45 LONG 077 42 50)											
JUNE, 1972											
21...	1835	885	3.5	11000	1200	22	2.1	1.2	5.2	67	0
01523500 - CANACADEA CREEK NEAR HORNELL NY (LAT 42 20 05 LONG 077 41 00)											
JUNE, 1972											
22...	1325	3140	3.3	28000	1400	23	3.5	2.7	1.6	73	0
01524500 - CANISTEO R BELOW CANACADEA C AT HORNELL NY (LAT 42 18 50 LONG 077 39 05)											
MAR., 1972											
23...	1445	590	4.8	320	60	22	4.3	4.5	1.5	56	0
JUNE											
21...	1330	7660	3.7	10000	2400	26	2.6	3.6	3.3	70	0
C 01524525 - CANISTEO RIVER BELOW HORNELL NY (LAT 42 17 58 LONG 077 39 03)											
DEC., 1971											
14...	1140	--	4.7	--	--	45	9.2	13	2.3	130	0
B 01525650 - CANISTEO RIVER AT ADDISON NY (LAT 42 06 25 LONG 077 14 03)											
JUNE, 1972											
29...	1810	E1500	6.2	14000	450	36	6.0	6.3	3.4	105	0
01527000 - COHOCTON RIVER AT COHOCTON NY (LAT 42 30 00 LONG 077 30 02)											
JUNE, 1972											
21...	1815	338	5.4	2200	150	20	4.4	2.4	1.9	54	0
24...	1800	1480	5.3	40	0	18	3.6	2.4	2.4	41	0
01529000 - MUD CREEK NEAR SAVONA NY (LAT 42 18 29 LONG 077 11 50)											
MAR., 1972											
23...	1150	509	4.2	320	60	12	3.5	3.1	1.4	35	0
JUNE											
25...	0935	--	6.0	--	--	16	4.9	3.0	.8	53	0

B Spectrographic, Pesticides and Suspended-Sediment data for this site on page 242-245.

C Minor element analyses for this site on page 247.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
SUSQUEHANNA RIVER BASIN--Continued											
01514000 - OWEGO CREEK NEAR OWEGO NY (LAT 42 07 40 LONG 076 16 17)											
JUNE, 1972											
22...	13	16	2.5	.0	.60	43	24	11	--	--	17.5
27...	43	14	11	.1	1.0	90	59	17	--	--	18.0
01514880 - PIPE CREEK AT TIOGA CENTER NY (LAT 42 03 34 LONG 076 20 45)											
JUNE, 1972											
15...	48	16	5.0	.0	.20	80	61	13	147	7.7	18.0
01514900 - WAPPASENING CREEK AT NICHOLS NY (LAT 42 01 17 LONG 076 21 45)											
JUNE, 1972											
09...	21	15	5.2	.1	.40	54	36	14	101	7.3	17.0
01514950 - ELLIS CREEK NEAR BARTON NY (LAT 42 00 30 LONG 076 28 52)											
JUNE, 1972											
09...	30	17	3.7	.1	.40	63	44	14	115	7.4	15.0
01515000 - SUSQUEHANNA RIVER NEAR WAVERLY NY (LAT 41 59 05 LONG 076 30 05)											
JUNE, 1972											
24...	26	12	2.0	.0	.50	54	39	12	93	7.2	14.0
29...	47	13	5.0	.1	.70	82	62	15	146	7.4	--
01520500 - TIOGA RIVER AT LINDLEY NY (LAT 42 01 44 LONG 077 07 57)											
JUNE, 1972											
24...	8	55	4.9	.1	.80	101	61	53	164	6.6	19.0
01521500 - CANISTEO RIVER AT ARKPORT NY (LAT 42 23 45 LONG 077 42 50)											
JUNE, 1972											
21...	55	17	1.9	.1	.60	89	64	9	125	7.6	16.0
01523500 - CANACADEA CREEK NEAR HORNELL NY (LAT 42 20 05 LONG 077 41 00)											
JUNE, 1972											
22...	60	18	2.8	.1	.60	94	72	12	153	7.8	--
01524500 - CANISTEO R BELOW CANACADEA C AT HORNELL NY (LAT 42 18 50 LONG 077 39 05)											
MAR., 1972											
23...	46	28	7.2	.0	.70	103	73	27	175	7.4	1.0
JUNE											
21...	57	19	5.5	.1	1.3	104	76	18	183	7.5	16.0
01524525 - CANISTEO RIVER BELOW HORNELL NY (LAT 42 17 58 LONG 077 39 03)											
DEC., 1971											
14...	107	37	20	.2	.98	202	150	44	343	7.7	--
01525650 - CANISTEO RIVER AT ADDISON NY (LAT 42 06 25 LONG 077 14 03)											
JUNE, 1972											
29...	86	31	10	.1	1.2	156	120	28	263	7.5	19.0
01527000 - COHOCTON RIVER AT COHOCTON NY (LAT 42 30 00 LONG 077 30 02)											
JUNE, 1972											
21...	44	20	4.2	.0	1.2	90	68	24	148	7.7	17.5
24...	34	26	4.9	.1	1.4	89	60	26	135	7.2	18.0
01529000 - MUD CREEK NEAR SAVONA NY (LAT 42 18 29 LONG 077 11 50)											
MAR., 1972											
23...	29	20	4.9	.0	.30	--	44	16	114	7.1	.0
JUNE											
25...	43	19	<1.6	.1	.20	--	60	17	135	7.2	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
SUSQUEHANNA RIVER BASIN--Continued											
01529500 - COHOCTON RIVER NEAR CAMPBELL NY (LAT 42 15 10 LONG 077 13 00)											
MAR., 1972											
23...	1215	3450	5.1	520	100	20	4.5	12	1.4	51	0
JUNE											
24...	1850	10500	4.7	--	--	21	4.5	3.4	3.0	57	0
C 01529552 - COHOCTON RIVER AT CAMPBELL NY (LAT 42 13 37 LONG 077 11 56)											
DEC., 1971											
14...	1305	--	5.5	--	--	32	7.4	6.9	1.7	79	0
01530500 - NEWTOWN CREEK AT ELMIRA NY (LAT 42 06 15 LONG 076 47 55)											
JUNE, 1972											
22...	1320	2230	4.3	720	1000	16	4.7	3.1	3.8	51	0
22...	1815	2830	4.3	4400	570	15	3.6	2.7	3.2	46	0
BC 01531000 - CHEMUNG RIVER AT CHEMUNG NY (LAT 42 00 08 LONG 076 38 06)											
JUNE, 1972											
22...	1500	72700	4.5	7500	1400	18	3.6	3.0	1.9	51	0
25...	1445	32100	5.6	2100	450	28	4.8	7.2	3.0	58	0
29...	1415	7520	6.2	6400	430	31	5.8	7.4	2.4	78	0
ALLEGHENY RIVER BASIN											
C 03011020 - ALLEGHENY RIVER NEAR SALAMANCA NY (LAT 42 09 23 LONG 078 42 56)											
JUNE, 1972											
25...	1220	50500	4.3	120	0	7.0	1.4	2.8	1.8	12	0
STREAMS TRIBUTARY TO LAKE ERIE											
04213420 - ELTON CREEK AT THE FORKS NY (LAT 42 31 05 LONG 078 31 00)											
JUNE, 1972											
19...	1645	46	3.9	120	30	46	5.5	4.1	1.2	148	0
04213490 - SOUTH BRANCH CATTARAUGUS C NEAR OTTO NY (LAT 42 21 54 LONG 078 48 06)											
JUNE, 1972											
19...	1515	6.9	1.6	230	40	43	5.0	9.0	2.0	136	0
D 04213500 - CATTARAUGUS CREEK AT GOWANDA NY (LAT 42 28 05 LONG 078 56 30)											
JUNE, 1972											
24...	0930	5230	4.3	15000	810	38	4.3	3.1	2.0	98	0
04214010 - CLEAR CREEK NEAR IROQUOIS NY (LAT 42 32 34 LONG 079 00 30)											
JUNE, 1972											
08...	1600	12	2.2	80	0	58	12	9.1	2.4	170	0
04214030 - MUDDY CREEK NEAR FARNHAM NY (LAT 42 36 54 LONG 079 04 54)											
JUNE, 1972											
08...	1500	.46	2.8	830	190	56	12	23	2.0	156	0
04214040 - DELAWARE CREEK NEAR ANGOLA NY (LAT 42 37 46 LONG 079 03 15)											
JUNE, 1972											
08...	1435	1.5	4.9	280	30	51	9.4	11	2.9	120	0
04214060 - BIG SISTER CREEK AT EVANS CENTER NY (LAT 42 39 24 LONG 079 02 09)											
JUNE, 1972											
08...	1345	2.9	1.4	140	20	44	7.7	26	3.6	75	10
04214230 - S BR EIGHTEENMILE CREEK AT EDEN VALLEY NY (LAT 42 40 34 LONG 078 52 26)											
JUNE, 1972											
08...	1215	4.7	.8	40	0	48	8.7	8.1	2.4	125	0
04214250 - SMOKE CREEK AT LACKAWANNA NY (LAT 42 49 21 LONG 078 48 10)											
JUNE, 1972											
07...	1330	2.4	2.0	640	180	82	14	27	3.7	202	0

B Spectrographic, Pesticides and Suspended-Sediment data for this site on page 242-245.
C Minor element analyses for this site on page 247.
D Minor element analyses for this site on page 248.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
SUSQUEHANNA RIVER BASIN--Continued											
01529500 - COHOCTON RIVER NEAR CAMPBELL NY (LAT 42 15 10 LONG 077 13 00)											
MAR., 1972											
23...	42	26	20	.1	1.0	119	68	27	210	7.2	1.0
JUNE											
24...	47	23	6.0	.1	1.3	99	71	24	164	7.4	--
01529552 - COHOCTON RIVER AT CAMPBELL NY (LAT 42 13 37 LONG 077 11 56)											
DEC., 1971											
14...	65	34	14	.0	.15	142	110	46	250	7.6	--
01530500 - NEWTOWN CREEK AT ELMIRA NY (LAT 42 06 15 LONG 076 47 55)											
JUNE, 1972											
22...	42	17	3.8	.1	1.0	82	59	17	133	7.1	15.0
22...	38	17	4.2	.1	.50	75	52	15	121	7.2	14.0
01531000 - CHEMUNG RIVER AT CHEMUNG NY (LAT 42 00 08 LONG 076 38 06)											
JUNE, 1972											
22...	42	21	4.4	.1	1.0	86	60	18	138	7.0	15.0
25...	48	36	13	.1	1.2	132	90	42	207	7.5	--
29...	64	35	12	.1	1.3	144	100	37	245	7.4	19.0
ALLEGHENY RIVER BASIN											
03011020 - ALLEGHENY RIVER NEAR SALAMANCA NY (LAT 42 09 23 LONG 078 42 56)											
JUNE, 1972											
25...	10	18	4.5	.0	.40	47	23	13	66	6.8	14.0
STREAMS TRIBUTARY TO LAKE ERIE											
04213420 - ELTON CREEK AT THE FORKS NY (LAT 42 31 05 LONG 078 31 00)											
JUNE, 1972											
19...	121	22	6.0	.1	.60	164	140	16	298	8.3	23.0
04213490 - SOUTH BRANCH CATTARAUGUS C NEAR OTTO NY (LAT 42 21 54 LONG 078 48 06)											
JUNE, 1972											
19...	112	22	14	.1	.90	168	130	16	310	8.1	23.0
04213500 - CATTARAUGUS CREEK AT GOWANDA NY (LAT 42 28 05 LONG 078 56 30)											
JUNE, 1972											
24...	80	35	4.6	.1	.80	143	110	32	222	7.8	12.0
04214010 - CLEAR CREEK NEAR IROQUOIS NY (LAT 42 32 34 LONG 079 00 30)											
JUNE, 1972											
08...	139	50	14	.1	.20	232	190	55	406	7.9	20.5
04214030 - MUDDY CREEK NEAR FARNHAM NY (LAT 42 36 54 LONG 079 04 54)											
JUNE, 1972											
08...	128	50	36	.2	.60	261	190	61	469	7.7	20.0
04214040 - DELAWARE CREEK NEAR ANGOLA NY (LAT 42 37 46 LONG 079 03 15)											
JUNE, 1972											
08...	98	60	21	.2	1.1	224	170	68	283	7.9	21.0
04214060 - BIG SISTER CREEK AT EVANS CENTER NY (LAT 42 39 24 LONG 079 02 09)											
JUNE, 1972											
08...	78	54	46	.2	.30	231	140	63	413	9.1	26.5
04214230 - S BR EIGHTEENMILE CREEK AT EDEN VALLEY NY (LAT 42 40 34 LONG 078 52 26)											
JUNE, 1972											
08...	103	51	14	.1	.50	197	160	53	345	7.9	23.0
04214250 - SMOKE CREEK AT LACKAWANNA NY (LAT 42 49 21 LONG 078 48 10)											
JUNE, 1972											
07...	166	82	46	.3	.30	358	260	97	624	7.8	14.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS TRIBUTARY TO LAKE ERIE--Continued											
04214410 - HUNTER CREEK AT COLEGRAVE NY (LAT 42 44 11 LONG 078 32 55)											
JUNE, 1972 19...	1930	1.4	2.8	140	20	50	6.0	8.8	2.3	137	2
04214980 - LITTLE BUFFALO CREEK AT EAST LANCASTER NY (LAT 42 52 46 LONG 078 36 27)											
JUNE, 1972 07...	1155	6.2	1.6	220	20	64	12	8.9	2.0	193	0
04215250 - WEST BRANCH CAZENOVIA C NR EAST AURORA NY (LAT 42 45 16 LONG 078 39 06)											
JUNE, 1972 19...	1935	13	.3	110	0	40	5.8	10	2.2	108	0
04215350 - EAST BRANCH CAZENOVIA C AT SOUTH WALES NY (LAT 42 42 12 LONG 078 34 50)											
MAR., 1972 22...	1550	182	4.6	590	80	21	5.3	3.4	1.4	65	0
JUNE 19...	1810	13	2.7	80	0	44	5.9	9.9	1.8	134	0
STREAMS TRIBUTARY TO NIAGARA RIVER											
04216400 - TONAWANDA CREEK NEAR JOHNSONBURG NY (LAT 42 43 05 LONG 078 19 18)											
JUNE, 1972 20...	0855	12	4.3	100	0	56	7.4	4.7	1.4	185	0
04217700 - MURDER CREEK AT PEMBROKE NY (LAT 42 59 37 LONG 078 26 08)											
JUNE, 1972 07...	1650	10	1.6	310	0	83	16	14	2.0	265	0
04218200 - RANSOM CREEK NEAR WENDELVILLE NY (LAT 43 03 08 LONG 078 44 23)											
JUNE, 1972 19...	1230	9.0	1.8	10	0	310	41	39	3.5	211	0
ST. LAWRENCE RIVER MAIN STEM											
E 04220284 - L ONTARIO AT MCWA AT ROCHESTER NY (LAT 43 16 45 LONG 077 37 01)											
DEC., 1971 15...	0855	--	.4	--	--	42	8.4	14	1.7	118	0
STREAMS TRIBUTARY TO LAKE ONTARIO											
04220370 - CRYDER CREEK AT PAYNESVILLE NY (LAT 42 00 29 LONG 077 50 30)											
JUNE, 1972 19...	1000	22	2.8	480	120	14	4.7	8.8	1.2	49	0
04220390 - MARSH CREEK AT MAPES NY (LAT 42 02 54 LONG 077 55 53)											
JUNE, 1972 09...	1400	2.8	3.9	830	330	28	6.3	21	1.7	42	0
04220410 - FORD BROOK AT STANNARDS NY (LAT 42 04 03 LONG 077 55 43)											
JUNE, 1972 09...	1235	5.2	4.4	260	60	18	6.3	19	1.4	80	0
04220430 - CHENUNDA CREEK AT STANNARDS NY (LAT 42 05 06 LONG 077 54 36)											
JUNE, 1972 09...	1145	12	.8	120	20	13	3.9	12	1.5	58	0
04220450 - DYKE CREEK NEAR WEST GREENWOOD NY (LAT 42 08 41 LONG 077 44 07)											
JUNE, 1972 08...	0820	1.2	4.4	150	0	10	2.8	7.5	.8	33	0
04220455 - QUIG HOLLOW BROOK NEAR ANDOVER NY (LAT 42 08 45 LONG 077 45 25)											
JUNE, 1972 08...	0900	1.1	4.3	170	90	8.8	2.8	6.6	1.0	33	0

E Minor element analyses for this site on page 249.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
STREAMS TRIBUTARY TO LAKE ERIE--Continued											
04214410 - HUNTER CREEK AT COLEGRAVE NY (LAT 42 44 11 LONG 078 32 55)											
JUNE, 1972 19...	116	43	13	.1	.04	196	150	34	351	8.5	22.0
04214980 - LITTLE BUFFALO CREEK AT EAST LANCASTER NY (LAT 42 52 46 LONG 078 36 27)											
JUNE, 1972 07...	158	39	16	.1	.70	242	210	51	424	7.9	9.0
04215250 - WEST BRANCH CAZENOVIA C NR EAST AURORA NY (LAT 42 45 16 LONG 078 39 06)											
JUNE, 1972 19...	89	49	14	.1	.01	175	120	35	320	8.1	25.0
04215350 - EAST BRANCH CAZENOVIA C AT SOUTH WALES NY (LAT 42 42 12 LONG 078 34 50)											
MAR., 1972 22...	53	24	5.4	.1	.40	99	74	21	168	7.8	.5
JUNE 19...	110	34	15	.1	.30	181	130	24	328	7.8	24.0
STREAMS TRIBUTARY TO NIAGARA RIVER											
04216400 - TONAWANDA CREEK NEAR JOHNSONBURG NY (LAT 42 43 05 LONG 078 19 18)											
JUNE, 1972 20...	152	29	8.2	.1	.50	204	170	19	372	8.2	17.0
04217700 - MURDER CREEK AT PEMBROKE NY (LAT 42 59 37 LONG 078 26 08)											
JUNE, 1972 07...	217	28	29	.2	.09	304	270	56	533	8.0	11.0
04218200 - RANSOM CREEK NEAR WENDELVILLE NY (LAT 43 03 08 LONG 078 44 23)											
JUNE, 1972 19...	173	700	82	.7	.20	1280	940	770	1680	8.1	17.0
ST. LAWRENCE RIVER MAIN STEM											
04220284 - L ONTARIO AT MCWA AT ROCHESTER NY (LAT 43 16 45 LONG 077 37 01)											
DEC., 1971 15...	97	28	27	.1	.23	181	140	43	326	7.8	--
STREAMS TRIBUTARY TO LAKE ONTARIO											
04220370 - CRYDER CREEK AT PAYNESVILLE NY (LAT 42 00 29 LONG 077 50 30)											
JUNE, 1972 19...	40	13	13	.1	.30	83	54	14	155	7.4	17.0
04220390 - MARSH CREEK AT MAPES NY (LAT 42 02 54 LONG 077 55 53)											
JUNE, 1972 09...	34	12	65	.1	.20	160	96	61	327	7.0	17.0
04220410 - FORD BROOK AT STANNARDS NY (LAT 42 04 03 LONG 077 55 43)											
JUNE, 1972 09...	66	10	26	.1	.10	125	71	5	239	7.3	15.0
04220430 - CHENUNDA CREEK AT STANNARDS NY (LAT 42 05 06 LONG 077 54 36)											
JUNE, 1972 09...	48	15	8.0	.1	.03	83	49	1	156	7.6	15.5
04220450 - DYKE CREEK NEAR WEST GREENWOOD NY (LAT 42 08 41 LONG 077 44 07)											
JUNE, 1972 08...	27	11	9.8	.1	.30	64	36	9	119	7.4	10.0
04220455 - QUIG HOLLOW BROOK NEAR ANDOVER NY (LAT 42 08 45 LONG 077 45 25)											
JUNE, 1972 08...	27	15	4.3	.1	.20	60	33	6	104	7.4	10.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04220460 - EAST VALLEY C TRIBUTARY NEAR ANDOVER NY (LAT 42 11 22 LONG 077 46 02)											
JUNE, 1972 08...	0950	.44	3.4	110	10	7.6	1.8	2.6	1.0	19	0
04220465 - RAILROAD BROOK NEAR ALFRED NY (LAT 42 12 51 LONG 077 47 47)											
JUNE, 1972 08...	1030	.11	4.8	290	10	18	5.0	9.0	1.7	65	0
04220480 - ELM VALLEY CREEK NEAR ELM VALLEY NY (LAT 42 11 16 LONG 077 51 00)											
JUNE, 1972 08...	1140	.32	2.0	70	0	12	3.2	5.5	1.8	39	0
B 04221000 - GENESEE RIVER AT WELLSVILLE NY (LAT 42 07 20 LONG 077 57 27)											
JUNE, 1972 29...	1920	460	5.5	2500	190	12	3.2	4.8	1.5	32	0
04221200 - BRIMMER BROOK NEAR WELLSVILLE NY (LAT 42 07 30 LONG 077 58 43)											
JUNE, 1972 08...	1310	2.4	1.7	90	0	18	4.3	19	1.2	66	0
04221510 - VANDERMARK CREEK NEAR SCIO NY (LAT 42 10 02 LONG 077 57 31)											
JUNE, 1972 08...	1410	2.8	3.4	30	0	11	3.1	4.4	1.4	35	0
04221520 - KNIGHT CREEK AT SCIO NY (LAT 42 10 15 LONG 077 59 17)											
JUNE, 1972 09...	1035	5.7	1.8	100	0	27	6.7	49	1.9	97	0
04221560 - PHILLIPS CREEK NEAR BELMONT NY (LAT 42 14 23 LONG 078 00 54)											
JUNE, 1972 09...	1205	3.7	1.7	40	0	26	4.6	5.9	1.8	86	0
04221650 - BLACK CREEK AT BENNETTS NY (LAT 42 19 19 LONG 077 56 32)											
JUNE, 1972 09...	1420	9.8	2.4	520	110	16	3.9	3.2	.8	54	0
04221710 - BAKER CREEK NEAR ANGELICA NY (LAT 42 18 31 LONG 078 02 38)											
JUNE, 1972 09...	1320	5.0	2.2	130	0	26	4.8	3.9	1.5	79	0
04221760 - WHITE CREEK NEAR BELFAST NY (LAT 42 18 53 LONG 078 06 28)											
JUNE, 1972 08...	1705	2.6	3.4	50	0	30	6.2	3.1	2.1	101	0
04221810 - WIGWAM CREEK AT BELFAST NY (LAT 42 20 04 LONG 078 05 54)											
JUNE, 1972 08...	1605	2.8	2.6	210	10	24	4.8	2.9	1.4	79	0
04221830 - CRAWFORD CREEK AT ORAMEL NY (LAT 42 21 37 LONG 078 08 58)											
JUNE, 1972 08...	1515	2.3	4.4	720	20	34	6.3	3.3	1.5	117	0
04222530 - COLD CREEK AT HUME NY (LAT 42 28 23 LONG 078 08 12)											
JUNE, 1972 08...	1405	13	3.0	110	0	42	7.4	4.2	1.7	135	0
04222540 - RUSH CREEK AT FILLMORE NY (LAT 42 27 54 LONG 078 05 47)											
JUNE, 1972 08...	1320	7.4	2.9	80	0	38	7.5	4.8	2.0	121	0

B Spectrographic, Pesticides and Suspended-Sediment data for this site on page 242-245.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04220460 - EAST VALLEY C TRIBUTARY NEAR ANDOVER NY (LAT 42 11 22 LONG 077 46 02)											
JUNE, 1972 08...	16	11	1.7	.1	.04	39	26	11	69	7.1	13.0
04220465 - RAILROAD BROOK NEAR ALFRED NY (LAT 42 12 51 LONG 077 47 47)											
JUNE, 1972 08...	53	18	11	.1	.30	101	66	12	184	7.5	14.0
04220480 - ELM VALLEY CREEK NEAR ELM VALLEY NY (LAT 42 11 16 LONG 077 51 00)											
JUNE, 1972 08...	32	19	3.2	.1	.30	67	43	11	123	7.2	13.0
04221000 - GENESEE RIVER AT WELLSVILLE NY (LAT 42 07 20 LONG 077 57 27)											
JUNE, 1972 29...	26	16	7.6	.1	1.0	71	43	17	123	7.1	15.0
04221200 - BRIMMER BROOK NEAR WELLSVILLE NY (LAT 42 07 30 LONG 077 58 43)											
JUNE, 1972 08...	54	11	26	.1	.06	114	63	9	219	7.8	14.0
04221510 - VANDERMARK CREEK NEAR SCIO NY (LAT 42 10 02 LONG 077 57 31)											
JUNE, 1972 08...	29	15	5.1	.1	.05	61	40	12	114	7.3	23.0
04221520 - KNIGHT CREEK AT SCIO NY (LAT 42 10 15 LONG 077 59 17)											
JUNE, 1972 09...	80	12	81	.1	.07	228	95	15	441	7.8	16.0
04221560 - PHILLIPS CREEK NEAR BELMONT NY (LAT 42 14 23 LONG 078 00 54)											
JUNE, 1972 09...	71	17	6.0	.1	.00	105	84	13	195	7.9	11.5
04221650 - BLACK CREEK AT BENNETTS NY (LAT 42 19 19 LONG 077 56 32)											
JUNE, 1972 09...	44	11	2.5	.1	.10	67	56	12	125	7.3	--
04221710 - BAKER CREEK NEAR ANGELICA NY (LAT 42 18 31 LONG 078 02 38)											
JUNE, 1972 09...	65	20	3.6	.1	.01	101	85	20	184	7.8	17.0
04221760 - WHITE CREEK NEAR BELFAST NY (LAT 42 18 53 LONG 078 06 28)											
JUNE, 1972 08...	83	22	3.0	.1	.01	120	100	18	211	8.0	21.0
04221810 - WIGWAM CREEK AT BELFAST NY (LAT 42 20 04 LONG 078 05 54)											
JUNE, 1972 08...	65	16	1.9	.1	.00	93	80	15	169	7.7	19.0
04221830 - CRAWFORD CREEK AT ORAMEL NY (LAT 42 21 37 LONG 078 08 58)											
JUNE, 1972 08...	96	18	2.2	.1	.01	127	110	15	230	8.1	21.5
04222530 - COLD CREEK AT HUME NY (LAT 42 28 23 LONG 078 08 12)											
JUNE, 1972 08...	111	23	5.7	.1	.40	155	140	25	276	--	20.5
04222540 - RUSH CREEK AT FILLMORE NY (LAT 42 27 54 LONG 078 05 47)											
JUNE, 1972 08...	99	31	5.0	.1	.02	151	130	27	268	8.1	20.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04222680 - TROUT BROOK AT PIKE CORNERS NY (LAT 42 34 17 LONG 078 10 19)											
JUNE, 1972											
19...	1130	9.8	4.5	110	30	51	8.6	3.5	.9	147	0
B 04223000 - GENESEE RIVER AT PORTAGEVILLE NY (LAT 42 34 10 LONG 078 02 45)											
JUNE, 1972											
30...	0815	1570	5.4	14000	420	31	5.4	5.8	2.1	91	0
04223400 - WOLF CREEK NEAR CASTILE NY (LAT 42 36 55 LONG 078 00 45)											
JUNE, 1972											
08...	1200	5.9	5.6	180	20	170	31	600	20	156	2
04224550 - EWART CREEK AT SWAIN NY (LAT 42 28 40 LONG 077 51 18)											
JUNE, 1972											
19...	1825	1.5	5.8	130	0	16	4.3	6.4	2.0	42	0
04224700 - SUGAR CREEK NEAR OSSIAN NY (LAT 42 30 52 LONG 077 48 12)											
JUNE, 1972											
19...	1720	3.3	5.6	100	0	23	5.7	3.6	1.2	76	0
04224800 - STONY BROOK AT SOUTH DANSVILLE NY (LAT 42 28 14 LONG 077 39 10)											
JUNE, 1972											
19...	2025	.58	6.2	60	0	26	6.4	3.2	1.2	90	0
04225000 - CANASERAGA CREEK NEAR DANSVILLE NY (LAT 42 33 40 LONG 077 42 55)											
MAR., 1972											
23...	1615	573	5.2	430	--	24	4.8	4.1	1.3	65	0
JUNE											
25...	1255	1210	6.2	12000	530	36	6.6	4.9	2.3	99	0
04225600 - BRADNER CREEK AT WOODSVILLE NY (LAT 42 34 49 LONG 077 44 20)											
JUNE, 1972											
19...	1930	5.7	6.1	140	30	49	12	7.6	1.9	150	0
04227500 - GENESEE RIVER NEAR MOUNT MORRIS NY (LAT 42 46 00 LONG 077 50 21)											
JUNE, 1972											
23...	1820	14600	4.5	310	0	31	5.1	3.6	5.0	90	0
30...	1030	9120	4.0	61000	1100	26	4.0	3.7	1.9	73	0
04227600 - BEARDS CREEK AT CUYLERVILLE NY (LAT 42 46 36 LONG 077 51 38)											
JUNE, 1972											
19...	1550	5.1	2.8	180	90	83	25	39	4.3	252	0
04227650 - JAYCOX CREEK NEAR GENESEO NY (LAT 42 50 06 LONG 077 48 44)											
JUNE, 1972											
19...	1500	.77	1.4	80	20	78	30	38	5.0	216	0
04227900 - CHRISTIE CREEK NEAR CANAWAUGUS NY (LAT 42 54 40 LONG 077 47 19)											
JUNE, 1972											
20...	1010	.30	1.4	110	50	50	16	22	2.6	156	0
E 04228500 - GENESEE RIVER AT AVON NY (LAT 42 55 04 LONG 077 45 27)											
JUNE, 1972											
23...	1040	13200	4.7	300	20	38	6.6	16	5.2	102	0
25...	1645	16100	4.4	28000	830	32	5.6	8.4	4.4	92	0
30...	1210	12600	4.2	57000	1100	30	5.5	8.5	2.5	88	0
04228520 - WHITE CREEK AT CANAWAUGUS NY (LAT 42 55 53 LONG 077 46 51)											
JUNE, 1972											
08...	1200	4.8	5.4	50	30	90	33	14	1.8	268	0

B Spectrographic, Pesticides and Suspended-Sediment data for this site on page 242-245.

E Minor element analyses for this site on page 249.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04222680 - TROUT BROOK AT PIKE CORNERS NY (LAT 42 34 17 LONG 078 10 19)											
JUNE, 1972											
19...	121	26	9.0	.1	1.8	184	160	42	327	8.1	16.0
04223000 - GENESEE RIVER AT PORTAGEVILLE NY (LAT 42 34 10 LONG 078 02 45)											
JUNE, 1972											
30...	75	25	9.4	.1	1.3	135	100	25	232	7.7	16.0
04223400 - WOLF CREEK NEAR CASTILE NY (LAT 42 36 55 LONG 078 00 45)											
JUNE, 1972											
08...	131	180	1200	.2	1.2	2290	550	420	4030	8.4	17.0
04224550 - EWART CREEK AT SWAIN NY (LAT 42 28 40 LONG 077 51 18)											
JUNE, 1972											
19...	34	29	5.5	.1	.20	91	58	23	152	7.6	16.0
04224700 - SUGAR CREEK NEAR OSSIAN NY (LAT 42 30 52 LONG 077 48 12)											
JUNE, 1972											
19...	62	18	4.0	.1	.20	99	81	19	176	7.9	17.5
04224800 - STONY BROOK AT SOUTH DANSVILLE NY (LAT 42 28 14 LONG 077 39 10)											
JUNE, 1972											
19...	74	21	3.0	.1	.01	111	91	17	196	7.9	15.0
04225000 - CANASERAGA CREEK NEAR DANSVILLE NY (LAT 42 33 40 LONG 077 42 55)											
MAR., 1972											
23...	53	30	7.5	.0	.60	112	80	26	183	7.3	.0
JUNE											
25...	81	32	9.0	.1	1.0	150	120	36	247	8.1	14.0
04225600 - BRADNER CREEK AT WOODSVILLE NY (LAT 42 34 49 LONG 077 44 20)											
JUNE, 1972											
19...	123	33	13	.1	1.7	204	170	49	354	8.0	15.5
04227500 - GENESEE RIVER NEAR MOUNT MORRIS NY (LAT 42 46 00 LONG 077 50 21)											
JUNE, 1972											
23...	74	25	5.0	.2	--	124	98	25	213	7.7	17.0
30...	60	18	5.7	.1	.70	102	81	22	182	7.6	15.0
04227600 - BEARDS CREEK AT CUYLERVILLE NY (LAT 42 46 36 LONG 077 51 38)											
JUNE, 1972											
19...	207	66	72	.2	.50	418	310	100	747	8.0	18.0
04227650 - JAYCOX CREEK NEAR GENESEO NY (LAT 42 50 06 LONG 077 48 44)											
JUNE, 1972											
19...	177	110	65	.2	.02	434	320	140	754	8.3	19.0
04227900 - CHRISTIE CREEK NEAR CANAWAUGUS NY (LAT 42 54 40 LONG 077 47 19)											
JUNE, 1972											
20...	128	40	48	.2	.08	257	190	63	463	8.0	20.0
04228500 - GENESEE RIVER AT AVON NY (LAT 42 55 04 LONG 077 45 27)											
JUNE, 1972											
23...	84	38	26	.2	2.6	196	120	38	328	7.8	18.0
25...	75	34	13	.3	.90	151	100	28	239	7.9	--
30...	72	22	15	.1	1.1	136	98	25	244	7.5	16.0
04228520 - WHITE CREEK AT CANAWAUGUS NY (LAT 42 55 53 LONG 077 46 51)											
JUNE, 1972											
08...	220	93	33	.2	2.7	414	360	140	742	8.1	16.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04228550 - DUGAN CREEK AT MAXWELL NY (LAT 42 58 25 LONG 077 46 22)											
JUNE, 1972 08...	1040	42	6.1	160	70	290	42	22	1.8	239	0
04228855 - MILL CREEK AT HONEOYE PARK NY (LAT 42 47 09 LONG 077 29 57)											
JUNE, 1972 20...	1230	7.6	6.4	10	0	44	12	5.1	1.3	154	0
04229700 - SPRING BROOK AT MORAN CORNER NY (LAT 42 57 36 LONG 077 37 11)											
JUNE, 1972 20...	1120	4.1	2.2	40	20	91	24	22	3.4	298	0
04230050 - HONEOYE CREEK TRIBUTARY NEAR RUSH NY (LAT 42 59 09 LONG 077 39 54)											
JUNE, 1972 08...	1305	4.0	6.7	220	160	140	35	17	1.2	264	0
04230310 - WARNER CREEK AT ROCK GLEN NY (LAT 42 41 04 LONG 078 06 05)											
JUNE, 1972 19...	1220	2.1	4.4	100	30	43	7.6	4.9	1.4	118	0
04230360 - STONY CREEK AT WARSAW NY (LAT 42 44 00 LONG 078 08 16)											
JUNE, 1972 19...	1300	2.3	3.5	40	0	50	9.5	9.2	1.8	156	0
04230410 - PEARL CREEK AT PEARL CREEK NY (LAT 42 50 55 LONG 078 02 36)											
JUNE, 1972 19...	1345	3.0	5.0	220	80	83	21	12	2.1	299	0
04230490 - SPRING CREEK AT MUMFORD NY (LAT 42 59 14 LONG 077 51 44)											
JUNE, 1972 08...	0830	50	4.9	30	0	150	23	18	.2	237	0
04230800 - SPRING CREEK AT PUMPKIN HILL NY (LAT 42 05 37 LONG 078 04 00)											
JUNE, 1972 07...	1815	9.2	4.8	30	30	290	48	15	2.2	249	0
04231050 - HOTEL CREEK NEAR CHURCHVILLE NY (LAT 43 05 08 LONG 077 51 44)											
JUNE, 1972 07...	1935	3.3	6.8	30	0	270	43	15	2.7	355	0
04231100 - MILL CREEK NEAR WEST CHILI NY (LAT 43 04 31 LONG 077 46 56)											
JUNE, 1972 07...	2020	7.5	8.1	260	100	330	44	29	2.6	308	0
F 04232006 - GENESEE R(CHARLOTTE DKS)AT ROCHESTER NY (LAT 43 13 26 LONG 077 36 59)											
DEC., 1971 13...	1605	--	4.0	--	--	58	12	38	3.6	124	0
04232042 - IRONDEQUOIT CREEK AT BUSHNELL BASIN NY (LAT 43 04 09 LONG 077 29 22)											
JUNE, 1972 12...	1605	26	8.9	130	90	150	43	25	2.0	273	0
04232050 - ALLEN CREEK NEAR ROCHESTER NY (LAT 43 07 49 LONG 077 31 08)											
JUNE, 1972 30...	1200	377	5.2	1400	130	43	12	33	4.0	131	0
04232060 - SALMON CREEK AT PULTNEYVILLE NY (LAT 43 16 43 LONG 077 11 05)											
JUNE, 1972 08...	1500	3.3	.5	110	20	82	22	42	5.4	256	0

F Minor element analyses for this site on page 250.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04228550 - DUGAN CREEK AT MAXWELL NY (LAT 42 58 25 LONG 077 46 22)											
JUNE, 1972 08...	196	620	46	.5	.70	1150	900	700	1490	7.9	17.5
04228855 - MILL CREEK AT HONEOYE PARK NY (LAT 42 47 09 LONG 077 29 57)											
JUNE, 1972 20...	126	27	5.7	.1	.07	178	160	33	310	8.2	20.0
04229700 - SPRING BROOK AT MORAN CORNER NY (LAT 42 57 36 LONG 077 37 11)											
JUNE, 1972 20...	244	69	39	.3	.40	399	330	82	686	8.2	20.0
04230050 - HONEOYE CREEK TRIBUTARY NEAR RUSH NY (LAT 42 59 09 LONG 077 39 54)											
JUNE, 1972 08...	217	240	37	.4	.40	609	494	277	936	7.8	18.0
04230310 - WARNER CREEK AT ROCK GLEN NY (LAT 42 41 04 LONG 078 06 05)											
JUNE, 1972 19...	97	26	11	.1	1.5	163	140	42	291	7.8	16.5
04230360 - STONY CREEK AT WARSAW NY (LAT 42 44 00 LONG 078 08 16)											
JUNE, 1972 19...	128	25	20	.1	1.1	201	160	36	360	8.1	16.0
04230410 - PEARL CREEK AT PEARL CREEK NY (LAT 42 50 55 LONG 078 02 36)											
JUNE, 1972 19...	245	43	26	.1	1.3	345	290	48	606	8.1	17.0
04230490 - SPRING CREEK AT MUMFORD NY (LAT 42 59 14 LONG 077 51 44)											
JUNE, 1972 08...	194	230	36	.3	1.3	585	470	280	914	7.7	13.0
04230800 - SPRING CREEK AT PUMPKIN HILL NY (LAT 42 05 37 LONG 078 04 00)											
JUNE, 1972 07...	204	630	40	.7	1.4	1160	920	720	1520	7.7	11.0
04231050 - HOTEL CREEK NEAR CHURCHVILLE NY (LAT 43 05 08 LONG 077 51 44)											
JUNE, 1972 07...	291	480	44	.4	1.1	1040	850	560	1440	8.0	13.0
04231100 - MILL CREEK NEAR WEST CHILI NY (LAT 43 04 31 LONG 077 46 56)											
JUNE, 1972 07...	253	620	69	.8	.80	1260	1000	750	1680	7.8	11.0
04232006 - GENESEE R(CHARLOTTE DKS)AT ROCHESTER NY (LAT 43 13 26 LONG 077 36 59)											
DEC., 1971 13...	102	80	54	.3	.90	317	190	93	550	7.5	—
04232042 - IRONDOQUOIT CREEK AT BUSHNELL BASIN NY (LAT 43 04 09 LONG 077 29 22)											
JUNE, 1972 12...	224	300	51	.4	1.1	719	550	330	1120	8.0	12.0
04232050 - ALLEN CREEK NEAR ROCHESTER NY (LAT 43 07 49 LONG 077 31 08)											
JUNE, 1972 30...	107	38	51	.2	1.2	256	160	49	464	7.4	16.5
04232060 - SALMON CREEK AT PULTNEYVILLE NY (LAT 43 16 43 LONG 077 11 05)											
JUNE, 1972 08...	210	54	63	.3	3.0	408	300	85	737	8.0	19.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04232100 - STERLING CREEK AT STERLING NY (LAT 43 19 31 LONG 076 38 51)											
JUNE, 1972 25...	1430	329	6.7	400	40	51	11	3.8	1.6	179	0
04232420 - SAWMILL CREEK AT HECTOR NY (LAT 42 29 53 LONG 076 52 17)											
JUNE, 1972 12...	1130	1.2	4.2	220	80	42	8.2	5.8	1.7	130	0
04232482 - KEUKA LAKE OUTLET AT DRESDEN NY (LAT 42 40 49 LONG 076 57 15)											
MAR., 1972 23...	1300	504	1.6	300	0	40	9.3	6.0	2.1	114	0
JUNE 22...	2110	2220	5.1	240	680	50	7.3	4.4	5.3	136	0
04232490 - KASHONG CREEK NEAR BELLONA NY (LAT 42 45 55 LONG 076 58 36)											
JUNE, 1972 12...	1600	2.8	3.8	30	0	80	25	7.7	2.7	278	0
04232493 - REEDER CREEK NEAR MACDOUGALL NY (LAT 42 47 23 LONG 076 54 36)											
JUNE, 1972 12...	1250	.78	4.7	80	0	99	21	27	2.2	275	0
04232497 - WILSON CREEK NEAR GENEVA NY (LAT 42 48 43 LONG 076 58 38)											
JUNE, 1972 12...	1520	1.4	3.4	30	0	86	29	9.6	3.3	314	0
04232700 - SILVER CREEK NEAR WATERLOO NY (LAT 42 52 46 LONG 076 50 26)											
MAY , 1972 30...	1430	.62	2.1	180	0	89	16	7.3	3.9	248	0
04232720 - SUCKER BROOK NEAR SENECA FALL NY (LAT 42 52 49 LONG 076 48 59)											
MAY , 1972 30...	1530	.40	4.9	100	10	80	16	3.6	1.8	242	0
04233310 - SIXMILE CREEK ABOVE ITHACA NY (LAT 42 24 33 LONG 076 27 14)											
MAY , 1972 30...	1005	25	1.7	10	0	34	6.3	5.0	1.1	114	0
04233633 - FALL CREEK AT MCLEAN NY (LAT 42 33 04 LONG 076 17 33)											
MAY , 1972 30...	1100	36	1.8	110	0	47	7.8	3.7	.8	146	0
04233676 - VIRGIL CREEK AT DRYDEN NY (LAT 42 29 18 LONG 076 18 08)											
MAY , 1972 30...	1000	15	1.7	60	0	48	8.6	4.7	1.3	152	0
04234028 - TAUGHANNOCK CREEK AT HALSEYVILLE NY (LAT 42 31 47 LONG 076 38 14)											
MAY , 1972 30...	0930	23	1.4	50	0	46	8.0	4.6	1.3	149	0
04234032 - TRUMANSBURG CREEK AT TRUMANSBURG NY (LAT 42 32 31 LONG 076 38 52)											
MAY , 1972 30...	1030	3.6	3.5	70	0	67	10	15	2.8	216	0
04234036 - LIVELY RUN AT INTERLAKEN BEACH NY (LAT 42 37 47 LONG 076 41 20)											
MAY , 1972 30...	1130	.30	5.7	60	0	81	13	9.6	2.2	262	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
STREAMS TRIBUTARY TO LAKE ONTARIO—Continued											
04232100 - STERLING CREEK AT STERLING NY (LAT 43 19 31 LONG 076 38 51)											
JUNE, 1972 25...	147	13	6.3	.1	.40	183	170	26	321	7.9	18.0
04232420 - SAWMILL CREEK AT HECTOR NY (LAT 42 29 53 LONG 076 52 17)											
JUNE, 1972 12...	107	34	6.0	.1	.50	168	140	32	298	8.0	13.5
04232482 - KEUKA LAKE OUTLET AT DRESDEN NY (LAT 42 40 49 LONG 076 57 15)											
MAR., 1972 23...	94	38	9.5	.1	.90	167	140	45	291	7.6	2.0
JUNE 22...	112	40	10	.2	2.9	202	160	43	339	7.6	--
04232490 - KASHONG CREEK NEAR BELLONA NY (LAT 42 45 55 LONG 076 58 36)											
JUNE, 1972 12...	228	50	19	.2	--	325	300	75	563	8.0	13.0
04232493 - REEDER CREEK NEAR MACDOUGALL NY (LAT 42 47 23 LONG 076 54 36)											
JUNE, 1972 12...	226	76	50	.2	.90	419	330	110	719	8.1	12.5
04232497 - WILSON CREEK NEAR GENEVA NY (LAT 42 48 43 LONG 076 58 38)											
JUNE, 1972 12...	258	56	26	.2	1.3	374	330	77	665	8.1	12.5
04232700 - SILVER CREEK NEAR WATERLOO NY (LAT 42 52 46 LONG 076 50 26)											
MAY , 1972 30...	203	82	16	.2	2.8	351	290	85	619	7.9	18.5
04232720 - SUCKER BROOK NEAR SENECA FALL NY (LAT 42 52 49 LONG 076 48 59)											
MAY , 1972 30...	198	68	8.0	.2	1.0	306	270	67	491	7.9	12.5
04233310 - SIXMILE CREEK ABOVE ITHACA NY (LAT 42 24 33 LONG 076 27 14)											
MAY , 1972 30...	94	18	6.5	.1	.40	131	110	17	242	8.0	17.0
04233633 - FALL CREEK AT MCLEAN NY (LAT 42 33 04 LONG 076 17 33)											
MAY , 1972 30...	120	16	7.6	.1	1.7	164	150	30	301	7.9	15.0
04233676 - VIRGIL CREEK AT DRYDEN NY (LAT 42 29 18 LONG 076 18 08)											
MAY , 1972 30...	125	20	10	.1	1.7	177	160	31	324	8.1	15.0
04234028 - TAUGHANNOCK CREEK AT HALSEYVILLE NY (LAT 42 31 47 LONG 076 38 14)											
MAY , 1972 30...	122	25	8.5	.1	.80	172	150	26	311	8.1	17.0
04234032 - TRUMANSBURG CREEK AT TRUMANSBURG NY (LAT 42 32 31 LONG 076 38 52)											
MAY , 1972 30...	177	37	21	.2	2.7	275	210	31	488	8.0	16.0
04234036 - LIVELY RUN AT INTERLAKEN BEACH NY (LAT 42 37 47 LONG 076 41 20)											
MAY , 1972 30...	215	49	15	.2	1.5	311	260	41	537	7.9	13.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04234038 - SHELDRAKE CREEK AT SHELDRAKE NY (LAT 42 39 54 LONG 076 42 06)											
MAY , 1972											
30...	1230	1.2	4.3	20	0	65	11	6.0	2.7	202	0
04234048 - HICKS GULLY CREEK NEAR EAST VARICK NY (LAT 42 44 43 LONG 076 46 14)											
MAY , 1972											
30...	1330	.28	4.3	50	0	66	10	11	2.6	196	0
04234053 - GREAT GULLY BROOK NEAR UNION SPRINGS NY (LAT 42 48 28 LONG 076 42 09)											
MAY , 1972											
30...	1715	2.6	.9	70	0	61	16	3.6	1.8	220	0
04234058 - YAWGER CREEK NEAR UNION SPRINGS NY (LAT 42 52 44 LONG 076 41 02)											
MAY , 1972											
30...	1630	3.0	2.9	30	0	110	22	4.4	1.7	256	0
0423406C - MONTEZUMA MARSH OUTLET AT SENECA SPILLWAY (LAT 42 59 02 LONG 076 44 07)											
OCT., 1971											
05...	1330	--	--	--	--	--	--	--	--	158	0
NOV.											
02...	1100	.00	--	--	--	--	--	--	--	156	0
16...	1300	--	--	--	--	--	--	--	--	174	0
DEC.											
07...	1300	--	--	--	--	--	--	--	--	189	0
FEB., 1972											
15...	1400	1.3	--	--	--	--	--	--	--	213	0
MAR.											
28...	1345	1.5	--	--	--	--	--	--	--	107	0
APR.											
11...	1130	11	.6	--	--	43	6.6	21	2.2	84	0
25...	1200	11	--	--	--	--	--	--	--	78	0
MAY											
09...	0855	12	--	--	--	--	--	--	--	109	0
23...	1130	8.3	--	--	--	--	--	--	--	139	0
04234060 - YAWGER CREEK NEAR CAYUGA NY (LAT 42 53 16 LONG 076 42 18)											
OCT., 1971											
19...	1130	--	--	--	--	--	--	--	--	146	16
04234250 - GANARGUA CREEK AT MACEDON NY (LAT 43 03 25 LONG 077 19 04)											
JUNE, 1972											
08...	1600	36	1.7	230	50	87	22	16	2.1	244	0
04234300 - FAIRVILLE CREEK AT FAIRVILLE STATION NY (LAT 43 05 59 LONG 077 03 49)											
JUNE, 1972											
08...	1400	3.5	9.4	500	200	110	27	12	2.4	332	0
04234400 - WEST RIVER NEAR MIDDLESEX NY (LAT 42 41 06 LONG 077 17 19)											
JUNE, 1972											
12...	1215	4.4	4.9	0	0	83	18	48	12	368	0
04234450 - NAPLES CREEK AT NAPLES NY (LAT 42 37 04 LONG 077 23 45)											
JUNE, 1972											
12...	1350	23	6.1	40	20	51	12	5.0	.9	183	0
04235000 - CANANDAIGUA OUTLET AT CHAPIN NY (LAT 42 55 00 LONG 077 14 00)											
JUNE, 1972											
23...	1930	1520	3.9	400	0	39	8.5	6.2	2.6	124	0
04235020 - PADELFORD BROOK AT SHORTSVILLE NY (LAT 42 57 33 LONG 077 13 39)											
JUNE, 1972											
12...	1325	2.2	1.8	110	20	75	31	12	2.1	325	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

STREAMS TRIBUTARY TO LAKE ONTARIO—Continued

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
04234038 - SHELDRAKE CREEK AT SHELDRAKE NY (LAT 42 39 54 LONG 076 42 06)											
MAY , 1972 30...	166	43	11	.1	1.9	251	210	42	441	8.0	14.5
04234048 - HICKS GULLY CREEK NEAR EAST VARICK NY (LAT 42 44 43 LONG 076 46 14)											
MAY , 1972 30...	161	47	17	.2	1.9	263	210	45	466	7.9	14.5
04234053 - GREAT GULLY BROOK NEAR UNION SPRINGS NY (LAT 42 48 28 LONG 076 42 09)											
MAY , 1972 30...	180	41	9.1	.2	2.3	252	220	38	453	8.2	17.5
04234058 - YAWGER CREEK NEAR UNION SPRINGS NY (LAT 42 52 44 LONG 076 41 02)											
MAY , 1972 30...	210	170	9.5	.3	1.0	451	370	160	731	7.8	16.0
0423406C - MONTEZUMA MARSH OUTLET AT SENECA SPILLWAY (LAT 42 59 02 LONG 076 44 07)											
OCT., 1971 05...	130	--	--	--	.10	--	--	--	--	7.8	20.0
NOV. 02...	138	--	--	--	--	--	--	--	633	8.5	17.0
16...	143	--	--	--	--	--	--	--	667	8.1	5.0
DEC. 07...	155	--	--	--	.01	--	--	--	753	8.1	.0
FEB., 1972 15...	175	--	--	--	.20	--	--	--	838	7.4	2.0
MAR. 28...	88	--	--	--	--	--	--	--	398	6.9	3.5
APR. 11...	69	61	36	.2	.09	215	140	66	350	7.1	5.0
25...	64	--	--	--	.00	--	--	--	413	7.4	10.0
MAY 09...	89	--	--	--	.10	--	--	--	507	7.6	9.0
23...	114	--	5.9	--	.00	--	--	--	554	8.1	24.0
04234060 - YAWGER CREEK NEAR CAYUGA NY (LAT 42 53 16 LONG 076 42 18)											
OCT., 1971 19...	146	--	--	--	.00	--	--	--	602	9.3	16.0
04234250 - GANARGUA CREEK AT MACEDON NY (LAT 43 03 25 LONG 077 19 04)											
JUNE, 1972 08...	200	90	26	.2	1.0	369	310	110	628	8.0	19.0
04234300 - FAIRVILLE CREEK AT FAIRVILLE STATION NY (LAT 43 05 59 LONG 077 03 49)											
JUNE, 1972 08...	272	91	20	.3	1.2	441	390	110	710	8.0	20.0
04234400 - WEST RIVER NEAR MIDDLESEX NY (LAT 42 41 06 LONG 077 17 19)											
JUNE, 1972 12...	302	46	26	.2	1.7	427	280	0	718	8.1	13.0
04234450 - NAPLES CREEK AT NAPLES NY (LAT 42 37 04 LONG 077 23 45)											
JUNE, 1972 12...	150	24	6.7	.1	.60	198	180	27	350	8.2	11.5
04235000 - CANANDAIGUA OUTLET AT CHAPIN NY (LAT 42 55 00 LONG 077 14 00)											
JUNE, 1972 23...	102	29	9.0	.2	.70	162	130	31	288	7.6	15.5
04235020 - PADELFORD BROOK AT SHORTSVILLE NY (LAT 42 57 39 LONG 077 13 39)											
JUNE, 1972 12...	267	35	23	.2	.30	341	320	48	606	8.1	12.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04235030 - BLACK BROOK AT MANCHESTER NY (LAT 42 58 42 LONG 077 13 32)											
JUNE, 1972											
12...	1435	7.9	11	110	0	150	35	38	1.5	423	0
04235040 - ROCKY RUN AT CLIFTON SPRINGS NY (LAT 42 57 48 LONG 077 09 12)											
JUNE, 1972											
12...	1225	1.8	1.4	50	0	88	21	8.9	2.5	290	0
04235150 - FLINT CREEK AT POTTER NY (LAT 42 42 09 LONG 077 12 25)											
MAR., 1972											
22...	1550	181	4.6	590	80	21	5.3	3.4	1.4	65	0
23...	1530	319	4.8	280	--	15	3.9	2.4	1.5	43	0
04235250 - FLINT CREEK AT PHELPS NY (LAT 42 57 28 LONG 077 04 06)											
JUNE, 1972											
23...	1745	2250	5.1	3200	210	44	7.6	4.5	3.6	116	0
04235260 - DUBLIN BROOK AT DUBLIN NY (LAT 42 58 58 LONG 076 54 52)											
JUNE, 1972											
08...	1230	.90	3.9	160	70	210	40	22	1.9	280	0
04235274 - WHITE BROOK AT MUNSONS CORNER NY (LAT 43 00 32 LONG 076 48 38)											
OCT., 1971											
06...	0830	--	--	--	--	--	--	--	--	310	0
20...	0800	--	--	--	--	--	--	--	--	350	0
NOV.											
03...	0800	--	--	--	--	--	--	--	--	400	0
17...	0745	--	--	--	--	--	--	--	--	345	0
DEC.											
08...	0745	--	--	--	--	--	--	--	--	221	0
FEB., 1972											
16...	0815	--	--	--	--	--	--	--	--	191	--
MAR.											
29...	0735	--	--	--	--	--	--	--	--	239	0
APR.											
12...	0930	--	1.4	--	--	120	23	10	1.9	232	0
26...	0700	--	--	--	--	--	--	--	--	265	0
MAY											
10...	0930	--	--	--	--	--	--	--	--	215	0
24...	0800	--	--	--	--	--	--	--	--	320	0
04235276 - BLACK BROOK AT TYRE NY (LAT 42 59 30 LONG 076 48 13)											
OCT., 1971											
05...	0815	1.4	--	--	--	--	--	--	--	374	0
19...	0800	.96	--	--	--	--	--	--	--	312	0
NOV.											
02...	0740	1.4	--	--	--	--	--	--	--	310	0
16...	0900	4.0	--	--	--	--	--	--	--	302	0
DEC.											
07...	0845	--	--	--	--	--	--	--	--	89	0
FEB., 1972											
15...	0900	--	--	--	--	--	--	--	--	132	--
MAR.											
28...	0930	29	--	--	--	--	--	--	--	142	0
APR.											
11...	1000	32	2.7	--	--	86	17	10	3.0	154	0
25...	0800	31	--	--	--	--	--	--	--	162	0
MAY											
09...	1530	97	--	--	--	--	--	--	--	122	0
23...	0845	8.9	--	--	--	--	--	--	--	278	0
JUNE											
08...	1130	3.2	3.6	180	80	240	39	20	3.2	304	0
04235281 - CRANE BROOK AT MONTEZUMA NY (LAT 43 01 17 LONG 076 41 20)											
JUNE, 1972											
08...	1030	18	2.0	450	60	110	28	110	2.2	308	0
04235293 - SPRING LAKE OUTLET AT SPRING LAKE NY (LAT 43 07 36 LONG 076 41 10)											
JUNE, 1972											
08...	0930	2.1	7.2	410	80	56	14	7.3	1.8	202	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04235030 - BLACK BROOK AT MANCHESTER NY (LAT 42 58 42 LONG 077 13 32)											
JUNE, 1972											
12...	347	160	75	.3	.06	679	520	170	1020	7.9	13.5
04235040 - ROCKY RUN AT CLIFTON SPRINGS NY (LAT 42 57 48 LONG 077 09 12)											
JUNE, 1972											
12...	238	51	19	.2	1.2	340	310	68	595	7.9	12.0
04235150 - FLINT CREEK AT POTTER NY (LAT 42 42 09 LONG 077 12 25)											
MAR., 1972											
22...	53	24	5.4	.1	.40	97	74	21	168	7.8	.5
23...	35	24	3.5	.0	.20	77	54	18	127	7.3	.0
04235250 - FLINT CREEK AT PHELPS NY (LAT 42 57 28 LONG 077 04 06)											
JUNE, 1972											
23...	95	36	12	.2	4.0	188	140	46	314	7.6	--
04235260 - DUBLIN BROOK AT DUBLIN NY (LAT 42 58 58 LONG 076 54 52)											
JUNE, 1972											
08...	230	400	39	.6	1.1	860	690	460	1230	8.0	20.0
04235274 - WHITE BROOK AT MUNSONS CORNER NY (LAT 43 00 32 LONG 076 48 38)											
OCT., 1971											
06...	254	--	--	--	.20	--	--	--	1600	7.9	14.0
20...	287	--	--	--	.10	--	--	--	1440	8.1	11.0
NOV.											
03...	328	--	--	--	.10	--	--	--	1380	8.0	12.0
17...	283	--	--	--	.20	--	--	--	1140	8.0	5.0
DEC.											
08...	181	--	--	--	1.1	--	--	--	654	7.7	3.0
FEB., 1972											
16...	157	--	--	--	1.1	--	--	--	775	7.6	.0
MAR.											
29...	196	--	--	--	.60	--	--	--	781	7.8	.0
APR.											
12...	190	190	28	.3	.50	492	390	200	754	8.0	5.5
26...	217	--	--	--	.40	--	--	--	876	8.0	4.0
MAY											
10...	176	--	--	--	.60	--	--	--	568	7.9	8.0
24...	262	--	46	--	.20	--	--	--	1120	8.1	15.0
04235276 - BLACK BROOK AT TYRE NY (LAT 42 59 30 LONG 076 48 13)											
OCT., 1971											
05...	307	--	--	--	.30	--	--	--	1420	7.8	15.0
19...	256	--	--	--	.10	--	--	--	1680	8.2	10.0
NOV.											
02...	254	--	--	--	.00	--	--	--	1610	7.9	12.0
16...	248	--	--	--	.60	--	--	--	1360	8.0	6.0
DEC.											
07...	73	--	--	--	1.0	--	--	--	345	7.5	1.0
FEB., 1972											
15...	108	--	--	--	1.0	--	--	--	643	7.6	.0
MAR.											
28...	116	--	--	--	.20	--	--	--	505	7.5	1.0
APR.											
11...	126	150	25	.2	.30	372	290	160	570	7.7	5.0
25...	133	--	--	--	.20	--	--	--	557	7.8	7.0
MAY											
09...	100	--	--	--	.30	--	--	--	318	7.6	8.5
23...	228	--	30	--	.30	--	--	--	913	8.2	15.5
JUNE											
08...	249	460	41	.5	.50	959	760	510	1330	8.0	19.0
04235281 - CRANE BROOK AT MONTEZUMA NY (LAT 43 01 17 LONG 076 41 20)											
JUNE, 1972											
08...	253	110	170	.3	1.2	689	390	140	1220	8.0	19.0
04235293 - SPRING LAKE OUTLET AT SPRING LAKE NY (LAT 43 07 36 LONG 076 41 10)											
JUNE, 1972											
08...	166	14	21	.2	.40	223	200	32	376	7.6	18.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO—Continued											
04235500 - OWASCO OUTLET NEAR AUBURN NY (LAT 42 56 45 LONG 076 36 05)											
MAR., 1972											
23...	1200	895	3.2	150	--	45	8.7	9.2	1.4	143	0
JUNE											
23...	1100	2870	3.3	40	10	44	6.6	5.0	1.5	137	0
04240010 - ONONDAGA CR AT SPENCER ST AT SYRACUSE NY (LAT 43 03 27 LONG 076 09 46)											
JUNE, 1972											
22...	1410	1610	5.0	4200	340	58	11	29	2.8	181	0
26...	1650	1060	5.9	--	--	72	14	38	2.3	220	0
04240100 - HARBOR BROOK AT SYRACUSE NY (LAT 43 02 08 LONG 076 11 17)											
MAR., 1972											
22...	1825	170	3.6	1700	--	68	12	19	2.6	147	0
04240105 - HARBOR BROOK AT HIAWATHA BLVD SYRACUSE NY (LAT 43 03 22 LONG 076 11 07)											
JUNE, 1972											
26...	1850	45	6.6	--	--	170	31	46	3.7	294	0
04240180 - NINEMILE CREEK NEAR MARIETTA NY (LAT 42 55 15 LONG 076 19 47)											
JUNE, 1972											
23...	1730	902	1.9	440	50	43	8.6	3.2	1.3	144	0
04240200 - NINEMILE CREEK AT CAMILLUS NY (LAT 43 02 20 LONG 076 18 30)											
MAR., 1972											
23...	1130	648	3.5	500	--	68	12	5.5	1.9	174	0
JUNE											
23...	1500	1670	3.2	870	80	55	12	3.8	1.8	164	0
G 04240300 - NINEMILE CREEK AT LAKELAND NY (LAT 43 04 50 LONG 076 13 36)											
MAR., 1972											
23...	1015	1210	3.8	1000	--	215	13	120	4.7	185	0
G 04240500 - ONONDAGA L OUTLET AT LONG BRANCH NY (LAT 43 07 01 LONG 076 14 44)											
NOV., 1971											
10...	1530	935	1.0	--	90	318	20	330	8.6	188	0
APR., 1972											
11...	1400	811	4.9	110	90	390	20	380	12	205	0
12...	0945	913	4.9	120	80	440	21	420	11	206	0
JUNE											
25...	1430	1830	2.8	180	60	286	18	250	8.0	159	0
04242500 - EAST BRANCH FISH CREEK AT TABERG NY (LAT 43 18 06 LONG 075 37 09)											
MAY , 1972											
03...	1300	10300	2.0	920	--	4.2	1.0	.4	.8	10	0
04243500 - ONEIDA CREEK AT ONEIDA NY (LAT 43 05 51 LONG 075 38 22)											
MAR., 1972											
22...	1830	1790	3.9	50	--	63	12	4.3	2.3	177	0
04245200 - BUTTERNUT CREEK NEAR JAMESVILLE NY (LAT 42 56 02 LONG 076 03 44)											
MAR., 1972											
22...	1500	557	3.6	3100	--	43	7.1	3.6	2.4	141	0
04245236 - MEADOW BROOK AT HURLBUT RD AT SYRACUSE NY (LAT 43 02 29 LONG 076 06 01)											
MAR., 1972											
22...	1625	32	3.4	1600	--	48	8.4	56	3.0	144	0
04246500 - ONEIDA RIVER AT CAUGHDENOY NY (LAT 43 14 49 LONG 076 10 12)											
JUNE, 1972											
24...	1730	9140	1.3	230	60	35	7.3	4.6	1.1	90	0
25...	1600	9610	1.6	--	--	33	6.5	3.8	1.1	88	0
26...	1220	10200	1.6	--	--	33	7.1	4.2	1.0	88	0

G Minor element analyses for this site on page 251.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04235500 - OWASCO OUTLET NEAR AUBURN NY (LAT 42 56 45 LONG 076 36 05)											
MAR., 1972											
23...	117	24	9.0	.1	.80	174	150	31	298	7.8	1.5
JUNE											
23...	112	27	8.0	.1	1.2	168	140	25	299	7.6	15.0
04240010 - ONONDAGA CR AT SPENCER ST AT SYRACUSE NY (LAT 43 03 27 LONG 076 09 46)											
JUNE, 1972											
22...	148	50	42	.2	1.0	291	190	42	500	7.7	--
26...	180	55	52	.2	1.3	353	240	57	617	7.8	17.0
04240100 - HARBOR BROOK AT SYRACUSE NY (LAT 43 02 08 LONG 076 11 17)											
MAR., 1972											
22...	121	82	35	.1	1.3	300	220	99	506	7.4	--
04240105 - HARBOR BROOK AT HIAWATHA BLVD SYRACUSE NY (LAT 43 03 22 LONG 076 11 07)											
JUNE, 1972											
26...	241	270	84	.5	--	757	550	310	1190	7.5	17.0
04240180 - NINEMILE CREEK NEAR MARIETTA NY (LAT 42 55 15 LONG 076 19 47)											
JUNE, 1972											
23...	118	18	5.3	.1	.70	156	140	25	278	7.9	17.0
04240200 - NINEMILE CREEK AT CAMILLUS NY (LAT 43 02 20 LONG 076 18 30)											
MAR., 1972											
23...	143	69	12	.1	1.0	262	220	76	442	7.8	1.0
JUNE											
23...	135	40	6.5	.1	.70	206	190	52	360	8.0	12.0
04240300 - NINEMILE CREEK AT LAKELAND NY (LAT 43 04 50 LONG 076 13 36)											
MAR., 1972											
23...	152	79	440	.2	.90	971	590	440	1790	7.8	1.0
04240500 - ONONDAGA L OUTLET AT LONG BRANCH NY (LAT 43 07 01 LONG 076 14 44)											
NOV., 1971											
10...	154	140	910	.5	.30	1820	880	720	3250	7.5	12.0
APR., 1972											
11...	168	150	1100	.5	.80	2160	1100	890	3930	7.5	3.0
12...	169	150	1300	.5	.90	2460	1200	1000	4620	7.7	3.0
JUNE											
25...	130	100	780	1.6	1.7	1540	790	660	2850	7.9	--
04242500 - EAST BRANCH FISH CREEK AT TABERG NY (LAT 43 18 06 LONG 075 37 09)											
MAY , 1972											
03...	8	9.1	.9	.0	.50	26	15	6	34	6.8	6.0
04243500 - ONEIDA CREEK AT ONEIDA NY (LAT 43 05 51 LONG 075 38 22)											
MAR., 1972											
22...	145	49	8.8	.1	1.5	237	210	62	399	7.7	1.0
04245200 - GUTTERNUT CREEK NEAR JAMESVILLE NY (LAT 42 56 02 LONG 076 03 44)											
MAR., 1972											
22...	116	27	8.1	.0	.80	168	140	21	270	7.3	1.0
04245236 - MEADOW BROOK AT HURLBUT RD AT SYRACUSE NY (LAT 43 02 29 LONG 076 06 01)											
MAR., 1972											
22...	118	56	86	.1	.90	336	150	36	567	7.4	3.0
04246500 - ONEIDA RIVER AT CAUGHDENOY NY (LAT 43 14 49 LONG 076 10 12)											
JUNE, 1972											
24...	74	42	7.0	.1	.60	146	120	44	--	7.9	--
25...	72	39	6.8	.1	.40	137	110	37	237	7.6	--
26...	72	39	6.9	.1	.30	137	110	39	236	8.2	19.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
G 04249000 - OSWEGO RIVER AT LOCK 7 AT OSWEGO NY (LAT 43 27 06 LONG 076 30 20)											
JUNE, 1972											
26...	1330	32400	2.7	--	--	61	9.4	37	2.4	126	0
04252500 - BLACK RIVER NEAR BOONVILLE NY (LAT 43 30 35 LONG 075 18 25)											
MAY , 1972											
02...	1420	4490	4.1	180	--	4.4	.4	.7	.5	8	0
03...	1700	8940	3.4	540	--	4.2	.4	.5	.4	7	0
H 04254965 - BLACK RIVER AT GREIG NY (LAT 43 40 36 LONG 075 21 39)											
MAY , 1972											
02...	1700	10600	4.2	190	--	5.6	.5	1.6	.8	12	0
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER											
04261000 - OSWEGATCHIE RIVER AT CRANBERRY LAKE NY (LAT 44 13 15 LONG 074 51 00)											
APR., 1972											
19...	1330	557	7.0	320	--	3.9	.7	1.1	.4	5	0
04262500 - W B OSWEGATCHIE RIVER NEAR HARRISVILLE NY (LAT 44 11 10 LONG 075 19 55)											
APR., 1972											
19...	1100	2960	4.9	220	--	4.0	.7	.7	.4	5	0
04263000 - OSWEGATCHIE RIVER NEAR HEUVELTON NY (LAT 44 36 00 LONG 075 22 45)											
MAY , 1972											
05...	0735	6060	4.5	440	--	10	2.6	1.5	.8	28	0
04265000 - GRASS RIVER AT PYRITES NY (LAT 44 31 30 LONG 075 11 50)											
APR., 1972											
26...	0950	1820	5.9	690	--	4.8	1.1	.9	.5	10	0
04266500 - RAQUETTE RIVER AT PIERCEFIELD NY (LAT 44 14 05 LONG 074 34 20)											
MAY , 1972											
10...	0920	8540	5.4	440	--	3.9	.4	2.9	.3	4	0
04267500 - RAQUETTE RIVER AT SOUTH COLTON NY (LAT 44 30 42 LONG 074 53 00)											
APR., 1972											
27...	1200	3740	5.9	580	--	3.6	.7	1.0	.6	5	0
04268000 - RAQUETTE RIVER AT RAYMONDVILLE NY (LAT 44 50 20 LONG 074 58 46)											
APR., 1972											
17...	1325	4670	6.2	430	--	8.4	2.5	2.0	.8	27	0
04269000 - ST REGIS RIVER AT BRASHER CENTER NY (LAT 44 51 49 LONG 074 46 45)											
APR., 1972											
17...	1045	3610	5.6	780	--	9.5	3.1	1.2	.6	32	0
04270000 - SALMON RIVER AT CHASM FALLS NY (LAT 44 45 22 LONG 074 13 09)											
MAY , 1972											
03...	1300	1850	5.0	410	--	4.5	1.0	.6	.4	8	0
04270510 - CHATEAUGAY RIVER BELOW CHATEAUGAY NY (LAT 44 57 49 LONG 074 07 53)											
APR., 1972											
25...	1000	938	5.7	210	--	9.0	2.1	1.5	.6	29	0
04273500 - SARANAC RIVER AT PLATTSBURGH NY (LAT 44 40 50 LONG 073 28 20)											
APR., 1972											
20...	1545	2820	6.6	460	--	8.4	2.0	1.7	.6	22	0

G Minor element analyses for this site on page 251.

H Minor element analyses for this site on page 252.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04249000 - OSWEGO RIVER AT LOCK 7 AT OSWEGO NY (LAT 43 27 06 LONG 076 30 20)											
JUNE, 1972											
26...	103	50	86	.1	1.0	315	190	88	566	7.6	--
04252500 - BLACK RIVER NEAR BOONVILLE NY (LAT 43 30 35 LONG 075 18 25)											
MAY , 1972											
02...	7	7.3	.6	.1	.60	25	13	6	35	6.6	6.0
03...	6	8.0	.3	.1	.60	23	12	6	33	6.4	7.0
04254965 - BLACK RIVER AT GREIG NY (LAT 43 40 36 LONG 075 21 39)											
MAY , 1972											
02...	10	8.4	1.5	.1	.60	31	16	6	47	6.7	2.0
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER											
04261000 - OSWEGATCHIE RIVER AT CRANBERRY LAKE NY (LAT 44 13 15 LONG 074 51 00)											
APR., 1972											
19...	4	9.5	.5	.1	.50	28	13	9	36	5.9	2.5
04262500 - W B OSWEGATCHIE RIVER NEAR HARRISVILLE NY (LAT 44 11 10 LONG 075 19 55)											
APR., 1972											
19...	4	10	.6	.2	.50	26	13	9	123	6.2	2.0
04263000 - OSWEGATCHIE RIVER NEAR HEUVELTON NY (LAT 44 36 00 LONG 075 22 45)											
MAY , 1972											
05...	23	13	1.4	.2	.40	50	36	13	81	7.1	8.5
04265000 - GRASS RIVER AT PYRITES NY (LAT 44 31 30 LONG 075 11 50)											
APR., 1972											
26...	8	10	1.0	.1	.50	31	17	8	43	6.9	3.0
04266500 - RAQUETTE RIVER AT PIERCEFIELD NY (LAT 44 14 05 LONG 074 34 20)											
MAY , 1972											
10...	3	9.5	1.4	.1	.40	28	11	8	34	6.0	7.5
04267500 - RAQUETTE RIVER AT SOUTH COLTON NY (LAT 44 30 42 LONG 074 53 00)											
APR., 1972											
27...	4	8.2	1.0	.1	.40	25	12	8	34	6.3	2.5
04268000 - RAQUETTE RIVER AT RAYMONDVILLE NY (LAT 44 50 20 LONG 074 58 46)											
APR., 1972											
17...	22	11	1.9	.1	.40	48	31	9	75	7.3	1.0
04269000 - ST REGIS RIVER AT BRASHER CENTER NY (LAT 44 51 49 LONG 074 46 45)											
APR., 1972											
17...	26	10	1.0	.1	.50	49	36	10	80	7.1	.0
04270000 - SALMON RIVER AT CHASM FALLS NY (LAT 44 45 22 LONG 074 13 09)											
MAY , 1972											
03...	7	9.7	.6	.1	.40	28	15	9	36	6.5	3.5
04270510 - CHATEAUGAY RIVER BELOW CHATEAUGAY NY (LAT 44 57 49 LONG 074 07 53)											
APR., 1972											
25...	24	9.5	1.5	.1	.30	46	31	7	71	7.7	2.0
04273500 - SARANAC RIVER AT PLATTSBURGH NY (LAT 44 40 50 LONG 073 28 20)											
APR., 1972											
20...	18	11	1.6	.1	.30	44	29	11	65	7.0	2.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER--Continued											
04275000 - EAST BRANCH AUSABLE R AT AU SABLE FORKS NY (LAT 44 26 20 LONG 073 40 55)											
APR., 1972 20...	1340	1750	7.9	290	--	6.4	1.1	1.2	.1	11	0
04278300 - NORTHWEST BAY BROOK NEAR BOLTON LANDING NY (LAT 43 39 48 LONG 073 36 14)											
APR., 1972 25...	1345	165	5.0	40	--	8.0	1.2	.9	.1	16	0
04279000 - LAKE GEORGE OUTLET AT TICONDEROGA NY (LAT 43 50 38 LONG 073 25 57)											
APR., 1972 25...	1125	980	1.4	40	--	12	2.4	2.1	.4	33	0

SPECTROGRAPHIC, PESTICIDE, AND SUSPENDED-SEDIMENT ANALYSES, JUNE 29, 30, 1972

SELECTED SITES AFFECTED BY TROPICAL STORM AGNES

NOTE: Chemical analyses for the following sites are included in the preceding part of this table (pages 220-229).

DATE	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	TOTAL BISMUTH (BI) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL GALLIUM (GA) (UG/L)	TOTAL GER-MANIUM (GE) (UG/L)
01515000 - SUSQUEHANNA RIVER NEAR WAVERLY NY (LAT 41 59 05 LONG 076 30 05)											
JUNE, 1972 29...	2200	45	0	3	30	40	5	2	34	0	4
01525650 - CANISTEO RIVER AT ADDISON NY (LAT 42 06 25 LONG 077 14 03)											
JUNE, 1972 29...	19000	220	2	7	95	95	17	9	58	0	10
01531000 - CHEMUNG RIVER AT CHEMUNG NY (LAT 42 00 08 LONG 076 38 06)											
JUNE, 1972 29...	8100	130	2	5	85	65	12	8	46	0	7
04221000 - GENESEE RIVER AT WELLSVILLE NY (LAT 42 07 20 LONG 077 57 27)											
JUNE, 1972 29...	2500	90	0	2	30	30	5	2	25	0	3
04223000 - GENESEE RIVER AT PORTAGEVILLE NY (LAT 42 34 10 LONG 078 02 45)											
JUNE, 1972 30...	1700	200	2	7	80	95	17	9	120	0	10
04227500 - GENESEE RIVER NEAR MOUNT MORRIS NY (LAT 42 46 00 LONG 077 50 21)											
JUNE, 1972 30...	78000	720	5	20	250	220	100	31	190	0	25
04228500 - GENESEE RIVER AT AVON NY (LAT 42 55 04 LONG 077 45 27)											
JUNE, 1972 30...	76000	650	5	20	220	230	85	30	200	0	25

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER--Continued											
04275000 - EAST BRANCH AUSABLE R AT AU SABLE FORKS NY (LAT 44 26 20 LONG 073 40 55)											
APR., 1972 20...	9	10	1.0	.0	.50	35	21	11	49	6.8	2.5
04278300 - NORTHWEST BAY BROOK NEAR BOLTON LANDING NY (LAT 43 39 48 LONG 073 36 14)											
APR., 1972 25...	13	12	1.0	.0	.10	37	25	12	58	7.2	5.0
04279000 - LAKE GEORGE OUTLET AT TICONDEROGA NY (LAT 43 50 38 LONG 073 25 57)											
APR., 1972 25...	27	12	3.0	.1	.00	50	40	13	92	7.4	4.0

SPECTROGRAPHIC, PESTICIDE, AND SUSPENDED-SEDIMENT ANALYSES, JUNE 29, 30, 1972

SELECTED SITES AFFECTED BY TROPICAL STORM AGNES

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL TIN (SN) (UG/L)	TOTAL TI-TANIUM (TI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZIR-CONIUM (ZR) (UG/L)
01515000 - SUSQUEHANNA RIVER NEAR WAVERLY NY (LAT 41 59 05 LONG 076 30 05)											
JUNE, 1972 29...	24	10	1	8	3	70	5	150	2.0	170	0
01525650 - CANISTEO RIVER AT ADDISON NY (LAT 42 06 25 LONG 077 14 03)											
JUNE, 1972 29...	37	10	3	29	0	110	13	1000	28	440	0
01531000 - CHEMUNG RIVER AT CHEMUNG NY (LAT 42 00 08 LONG 076 38 06)											
JUNE, 1972 29...	25	10	2	29	0	95	11	460	10	300	0
04221000 - GENESEE RIVER AT WELLSVILLE NY (LAT 42 07 20 LONG 077 57 27)											
JUNE, 1972 29...	25	10	1	6	0	120	11	160	3.0	140	0
04223000 - GENESEE RIVER AT PORTAGEVILLE NY (LAT 42 34 10 LONG 078 02 45)											
JUNE, 1972 30...	41	10	3	27	0	120	20	1000	24	450	0
04227500 - GENESEE RIVER NEAR MOUNT MORRIS NY (LAT 42 46 00 LONG 077 50 21)											
JUNE, 1972 30...	65	20	7	91	1	220	40	2300	150	1000	0
04228500 - GENESEE RIVER AT AVON NY (LAT 42 55 04 LONG 077 45 27)											
JUNE, 1972 30...	80	10	7	92	1	230	26	2300	130	1000	0

CONTINUED NEXT PAGE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

SPECTROGRAPHIC, PESTICIDE, AND SUSPENDED-SEDIMENT ANALYSES, JUNE 29, 30, 1972

SELECTED SITES AFFECTED BY TROPICAL STORM AGNES

NOTE: Chemical analyses for the following sites are included in the preceding part of this table (pages 220-229).

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	METHOXYCHLOR (UG/L)	TOXAPHENE (UG/L)
01515000 - SUSQUEHANNA RIVER NEAR WAVERLY NY (LAT 41 59 05 LONG 076 30 05)												
JUNE, 1972 29...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
01525650 - CANISTEO RIVER AT ADDISON NY (LAT 42 06 25 LONG 077 14 03)												
JUNE, 1972 29...	.00	.0	.00	.00	.01	.00	.00	.00	.00	.00	.00	.0
01531000 - CHEMUNG RIVER AT CHEMUNG NY (LAT 42 00 08 LONG 076 38 06)												
JUNE, 1972 29...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
04221000 - GENESEE RIVER AT WELLSVILLE NY (LAT 42 07 20 LONG 077 57 27)												
JUNE, 1972 29...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
04223000 - GENESEE RIVER AT PORTAGEVILLE NY (LAT 42 34 10 LONG 078 02 45)												
JUNE, 1972 30...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
04227500 - GENESEE RIVER NEAR MOUNT MORRIS NY (LAT 42 46 00 LONG 077 50 21)												
JUNE, 1972 30...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
04228500 - GENESEE RIVER AT AVON NY (LAT 42 55 04 LONG 077 45 27)												
JUNE, 1972 30...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	TIME	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
01515000 - SUSQUEHANNA RIVER NEAR WAVERLY NY (LAT 41 59 05 LONG 076 30 05)												
JUNE, 1972 29...	1215	18400	50	2480	--	--	--	--	--	--	--	--
01525650 - CANISTEO RIVER AT ADDISON NY (LAT 42 06 25 LONG 077 14 03)												
JUNE, 1972 29...	1700	E1570	203	861	--	--	--	--	--	--	--	--
01531000 - CHEMUNG RIVER AT CHEMUNG NY (LAT 42 00 08 LONG 076 38 06)												
JUNE, 1972 29...	1440	7500	93	1880	--	--	--	--	--	--	--	--
04221000 - GENESEE RIVER AT WELLSVILLE NY (LAT 42 07 20 LONG 077 57 27)												
JUNE, 1972 29...	1920	460	39	48	--	--	--	--	--	--	--	--
04223000 - GENESEE RIVER AT PORTAGEVILLE NY (LAT 42 34 10 LONG 078 02 45)												
JUNE, 1972 30...	0815	1570	279	1180	--	--	--	--	--	--	--	--
04227500 - GENESEE RIVER NEAR MOUNT MORRIS NY (LAT 42 46 00 LONG 077 50 21)												
JUNE, 1972 30...	1100	9000	902	21900	100	99	99	96	91	90	88	86
04228500 - GENESEE RIVER AT AVON NY (LAT 42 55 04 LONG 077 45 27)												
JUNE, 1972 30...	1210	12600	951	32400	100	99	99	97	94	88	84	78

SPECTROGRAPHIC, PESTICIDE, AND SUSPENDED-SEDIMENT ANALYSES, JUNE 29, 30, 1972

SELECTED SITES AFFECTED BY TROPICAL STORM AGNES

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01515000 - SUSQUEHANNA RIVER NEAR WAVERLY NY (LAT 41 59 05 LONG 076 30 05)											
JUNE, 1972 29...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	4.0
01525650 - CANISTEO RIVER AT ADDISON NY (LAT 42 06 25 LONG 077 14 03)											
JUNE, 1972 29...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.0
01531000 - CHEMUNG RIVER AT CHEMUNG NY (LAT 42 00 08 LONG 076 38 06)											
JUNE, 1972 29...	.00	.00	.00	.00	.00	.00	.00	.03	.00	.01	.0
04221000 - GENESEE RIVER AT WELLSVILLE NY (LAT 42 07 20 LONG 077 57 27)											
JUNE, 1972 29...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.0
04223000 - GENESEE RIVER AT PORTAGEVILLE NY (LAT 42 34 10 LONG 078 02 45)											
JUNE, 1972 30...	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	4.0
04227500 - GENESEE RIVER NEAR MOUNT MORRIS NY (LAT 42 46 00 LONG 077 50 21)											
JUNE, 1972 30...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.0
04228500 - GENESEE RIVER AT AVON NY (LAT 42 55 04 LONG 077 45 27)											
JUNE, 1972 30...	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	10

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
01336600 - MOHAWK RIVER (CANAL SECT) AT ROME NY (LAT 43 11 58 LONG 075 23 24)				
NOV., 1971 10...	3	140	0	<.5
JULY, 1972 05...	6	0	2	<.5
01338600 - MOHAWK RIVER ABOVE WHITESBORO NY (LAT 43 08 23 LONG 075 18 12)				
NOV., 1971 10...	3	80	0	<.5
MAR., 1972 20...	8	0	0	<.5
JULY 05...	9	140	5	<.5
01342602 - MOHAWK RIVER NEAR UTICA NY (LAT 43 05 26 LONG 075 09 29)				
NOV., 1971 10...	2	50	14	<.5
MAR., 1972 20...	5	20	2	<.5
JULY 05...	10	120	1000	<.5
01342755 - MOHAWK RIVER AT HERKIMER NY (LAT 43 01 01 LONG 074 59 48)				
NOV., 1971 10...	3	30	3	<.5
MAR., 1972 20...	6	30	3	<.5
JUNE 08...	7	20	0	<.5
SEP. 27...	0	60	8	<.5
01346000 - WEST CANADA CREEK AT KAST BRIDGE NY (LAT 43 04 25 LONG 074 59 24)				
NOV., 1971 11...	7	40	1	<.5
MAR., 1972 20...	5	0	0	<.5
JULY 06...	10	0	2	<.5
01348002 - EAST CANADA CREEK NEAR ST JOHNSVILLE NY (LAT 43 00 21 LONG 074 44 30)				
NOV., 1971 11...	5	40	1	<.5
JULY, 1972 06...	9	0	2	<.5
01358001 - HUDSON RIVER AT TROY NY (LAT 42 45 05 LONG 073 41 10)				
NOV., 1971 08...	4	20	9	<.5
DEC. 15...	7	0	9	<.5
FEB., 1972 14...	1	0	3	<.5
MAR. 13...	3	20	4	--
01496380 - CANADARAGO L NR RICHFIELD SPRINGS NY (LAT 42 49 15 LONG 075 00 42)				
NOV., 1971 10...	4	20	0	<.5
JUNE, 1972 08...	6	0	0	<.5
SEP. 27...	0	20	0	<.5
01505580 - CHENAGO RIVER AT NORWICH NY (LAT 42 28 21 LONG 075 32 44)				
JULY, 1972 10...	--	0	160	<.5
01513500 - SUSQUEHANNA RIVER AT VESTAL NY (LAT 42 05 30 LONG 076 03 25)				
JULY, 1972 10...	--	0	240	<.5

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
01513831 - SUSQUEHANNA RIVER AT OWEGO NY (LAT 42 06 01 LONG 076 15 39)				
JULY, 1972				
10...	--	0	3	<.5
01524525 - CANISTEO RIVER BELOW HORNELL NY (LAT 42 17 58 LONG 077 39 03)				
DEC., 1971				
14...	3	0	--	<.5
01529552 - COHOCTON RIVER AT CAMPBELL NY (LAT 42 13 37 LONG 077 11 56)				
DEC., 1971				
14...	3	0	4	<.5
01531000 - CHEMUNG RIVER AT CHEMUNG NY (LAT 42 00 08 LONG 076 38 06)				
JUNE, 1972				
29...	--	46	25	--
JULY				
10...	--	20	240	<.5
03010844 - ALLEGHENY RIVER AT ALLEGANY NY (LAT 42 05 26 LONG 078 30 09)				
JUNE, 1972				
13...	2	0	0	<.5
AUG.				
23...	0	0	0	<.5
03010870 - ALLEGHENY RIVER AT VANDALIA NY (LAT 42 05 38 LONG 078 34 27)				
JUNE, 1972				
13...	2	0	2	<.5
AUG.				
23...	0	0	0	<.5
03010958 - TUNUNGWANT CREEK AT TUNA CREEK PA (LAT 41 59 47 LONG 078 37 21)				
JUNE, 1972				
13...	6	30	10	<.5
AUG.				
23...	2	0	0	<.5
03011020 - ALLEGHENY RIVER NEAR SALAMANCA NY (LAT 42 09 23 LONG 078 42 56)				
JUNE, 1972				
13...	0	0	0	<.5
AUG.				
23...	1	0	0	<.5
03014500 - CHADAKOIN RIVER AT FALCONER NY (LAT 42 06 45 LONG 079 14 15)				
DEC., 1971				
08...	3	70	--	<.5
MAR., 1972				
07...	5	50	--	<.5
JUNE				
29...	8	0	14	<.5
SEP.				
20...	1	30	9	<.5
03014590 - CASSADAGA CREEK NEAR JAMESTOWN NY (LAT 42 05 48 LONG 079 09 25)				
JUNE, 1972				
28...	9	0	4	<.5
SEP.				
20...	0	0	52	<.5
03014600 - CONEWANGO CREEK AT FREWSBURG NY (LAT 42 04 11 LONG 079 09 30)				
JUNE, 1972				
28...	12	0	2	<.5
SEP.				
20...	10	50	19	2800
03014670 - CONEWANGO CREEK AT FENTONVILLE NY (LAT 42 01 23 LONG 079 09 36)				
JUNE, 1972				
28...	9	0	3	<.5
SEP.				
20...	1	0	8	<.5

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
04213378 - CANADAWAY CREEK AT DUNKIRK NY (LAT 42 28 32 LONG 079 21 56)				
JUNE, 1972 27...	3	0	5	<.5
04213450 - BUTTERMILK CREEK NEAR SPRINGVILLE NY (LAT 42 28 50 LONG 078 40 32)				
DEC., 1971 08...	1	40	--	<.5
MAR., 1972 07...	2	30	--	<.5
JUNE 27...	2	0	4	<.5
04213500 - CATTARAUGUS CREEK AT GOWANDA NY (LAT 42 28 05 LONG 078 56 30)				
DEC., 1971 08...	2	50	--	<.5
FEB., 1972 08...	1	60	1100	<.5
JUNE 27...	5	0	7	1.3
04214020 - CATTARAUGUS CREEK AT IRVING NY (LAT 42 34 12 LONG 079 06 45)				
JUNE, 1972 27...	9	0	9	<.5
04214240 - EIGHTEENMILE C AT HIGHLAND-ON-THE-LAKE NY (LAT 42 42 44 LONG 078 58 00)				
JUNE, 1972 27...	5	0	19	<.5
04215790 - BUFFALO R AT OHIO ST AT BUFFALO NY (LAT 42 51 42 LONG 078 52 04)				
DEC., 1971 07...	10	30	--	<.5
MAR., 1972 06...	4	30	--	<.5
JULY 24...	7	0	0	<.5
SEP. 19...	2	0	10	<.5
04216060 - NIAGARA R AT BIRD IS AT BUFFALO NY (LAT 42 54 53 LONG 078 54 12)				
DEC., 1971 07...	4	40	--	<.5
MAR., 1972 06...	1	10	--	<.5
JULY 24...	4	0	0	<.5
AUG. 21...	0	0	0	4.2
04216080 - BLACK ROCK CANAL AT BUFFALO NY (LAT 42 54 54 LONG 078 54 10)				
MAR., 1972 06...	1	40	--	<.5
JULY 24...	3	0	3	<.5
SEP. 19...	0	0	4	<.5
04216225 - NIAGARA R AT TONAWANDA WTR INTAKE NY (LAT 42 57 02 LONG 078 55 15)				
FEB., 1972 07...	2	30	3	<.5
MAR. 06...	2	30	--	<.5
JULY 24...	2	30	4	<.5
AUG. 21...	0	0	1	<.5
04216230 - NIAGARA R AT TONAWANDA WTR TREAT PLT NY (LAT 42 57 50 LONG 078 55 30)				
MAR., 1972 06...	0	30	2	<.5
JULY 24...	3	60	28	<.5
AUG. 21...	0	80	8	<.5

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
04218595 - ERIE(BARGE)CANAL NEAR PENDLETON NY (LAT 43 06 57 LONG 078 44 13)				
JULY, 1972 24...	4	0	4	<.5
SEP. 19...	13	0	4	<.5
04218705 - ERIE(BARGE)CANAL AT SH 383 AT ROCHESTER NY (LAT 43 07 23 LONG 077 38 45)				
JUNE, 1972 21...	3	20	24	<1.0
04218760 - ERIE(BARGE)CANAL AT WEST BRIGHTON NY (LAT 43 06 38 LONG 077 36 58)				
JUNE, 1972 21...	8	10	33	<1.0
04219355 - NIAGARA R(TNWDA CH)AT NIAGARA FALLS NY (LAT 43 04 28 LONG 079 00 19)				
FEB., 1972 07...	3	30	820	<.5
MAR. 06...	2	20	--	<.5
JULY 24...	4	0	0	<.5
AUG. 21...	0	0	2	<.5
04219640 - NIAGARA R(L ONTARIO) AT FORT NIAGARA NY (LAT 43 15 40 LONG 079 03 47)				
MAR., 1972 06...	1	20	--	<.5
JULY 24...	3	0	0	<.5
AUG. 21...	0	0	0	<.5
04220284 - L ONTARIO AT MCWA AT ROCHESTER NY (LAT 43 16 45 LONG 077 37 01)				
DEC., 1971 15...	1	0	4	<.5
04227000 - CANASERAGA CREEK AT SHAKERS CROSSING NY (LAT 42 44 15 LONG 077 50 30)				
MAY , 1972 16...	6	30	0	<.5
SEP. 27...	0	0	0	<.5
04227510 - GENESEE RIVER AT GENESEO NY (LAT 42 46 37 LONG 077 50 31)				
MAY , 1972 16...	7	30	27	<.5
SEP. 27...	0	20	0	<.5
04228500 - GENESEE RIVER AT AVON NY (LAT 42 55 04 LONG 077 45 27)				
MAY , 1972 16...	--	30	40	<.5
JUNE 30...	--	200	80	--
SEP. 27...	0	0	0	<.5
04230055 - HONEOYE CREEK AT WEST RUSH NY (LAT 42 58 40 LONG 077 41 52)				
JAN., 1972 27...	9	20	14	<.5
MAR. 21...	6	20	0	<.5
MAY 16...	10	70	--	<.5
04230650 - GENESEE R AT BALLANTYNE BR NR MORTIMER NY (LAT 43 05 31 LONG 077 40 52)				
JAN., 1972 27...	4	20	8	<.5
MAR. 21...	1	0	0	<.5
JUNE 21...	8	20	14	<1.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
04231500 - GENESEE R(ST HIGHWAY 47)AT ROCHESTER NY (LAT 43 07 28 LONG 077 37 56)				
JAN., 1972				
27...	12	50	7800	<.5
MAR.				
21...	0	20	0	<.5
JUNE				
21...	4	30	23	<1.0
04232006 - GENESEE R(CHARLOTTE DKS)AT ROCHESTER NY (LAT 43 13 26 LONG 077 36 59)				
DEC., 1971				
13...	6	0	8	<.5
04232158 - LAKE ONTARIO NEAR OSWEGO NY (LAT 43 28 17 LONG 076 32 59)				
JAN., 1972				
05...	2	40	7	<.5
MAR.				
01...	0	0	3	<.5
APR.				
26...	6	20	0	<.5
JUNE				
22...	3	0	3	<.5
AUG.				
16...	5	30	4	<.5
424852076572400 - SENECA LAKE(GENEVA WTR PLT)NEAR GENEVA NY (LAT 42 48 52 LONG 076 57 24)				
JAN., 1972				
12...	3	0	1	<.5
MAR.				
08...	2	--	--	<.5
JUNE				
15...	3	0	1	<.5
04232651 - SENECA RIVER AT WATERLOO NY (LAT 42 54 05 LONG 076 51 46)				
DEC., 1971				
08...	8	0	4	<.5
MAY , 1972				
17...	8	10	1	<.5
04232707 - SENECA RIVER AT SENECA FALLS NY (LAT 42 54 18 LONG 076 49 34)				
MAY , 1972				
17...	9	0	5	<.5
04232723 - SENECA R(VAN CLEEF L)AT SENECA FALLS NY (LAT 42 54 54 LONG 076 47 14)				
MAY , 1972				
17...	8	0	3	<.5
04232730 - SENECA RIVER NEAR SENECA FALLS NY (LAT 42 56 20 LONG 076 45 42)				
JUNE, 1972				
15...	0	0	4	<.5
04235396 - OWASCO LAKE NEAR AUBURN NY (LAT 42 53 56 LONG 076 32 17)				
JAN., 1972				
12...	2	0	0	<.5
MAR.				
08...	2	20	1	<.5
JUNE				
15...	1	0	0	<.5
04235730 - SENECA RIVER NEAR WEEDSPORT NY (LAT 43 04 14 LONG 076 33 25)				
DEC., 1971				
08...	6	0	4	<.5
MAY , 1972				
17...	11	0	0	<.5
425049076434300 - CAYUGA LAKE NEAR CAROGA NY (LAT 42 50 49 LONG 076 43 43)				
JAN., 1972				
12...	3	0	1	<.5
MAR.				
08...	4	--	--	<.5
JUNE				
15...	0	0	0	<.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
425746076441700 - SENECA RIVER AT FREE BRIDGE CORNERS NY (LAT 42 57 46 LONG 076 44 17)				
DEC., 1971				
08...	9	0	4	<.5
MAY , 1972				
17...	6	--	--	<.5
04240300 - NINEMILE CREEK AT LAKELAND NY (LAT 43 04 50 LONG 076 13 36)				
DEC., 1971				
01...	1	70	19	<.5
MAR., 1972				
29...	0	40	17	.7
APR.				
26...	2	30	7	<.5
AUG.				
16...	5	60	8	1.0
04240500 - ONONDAGA L OUTLET AT LONG BRANCH NY (LAT 43 07 01 LONG 076 14 44)				
JAN., 1972				
05...	6	0	1	<.5
APR.				
26...	8	30	2	<.5
AUG.				
16...	8	0	2	<.5
04240540 - SENECA RIVER AT BELGIUM NY (LAT 43 10 15 LONG 076 16 08)				
DEC., 1971				
01...	7	10	5	<.5
JAN., 1972				
05...	7	0	1	<.5
MAR.				
29...	0	0	2	<.5
JUNE				
22...	11	0	11	<.5
04242730 - FISH CREEK AT FISH CREEK LANDING NY (LAT 43 13 16 LONG 075 42 06)				
DEC., 1971				
15...	10	0	6	<.5
JUNE, 1972				
14...	1	0	0	<.5
04243535 - ONEIDA CREEK AT SOUTH BAY NY (LAT 43 09 51 LONG 075 44 14)				
DEC., 1971				
15...	7	0	3	<.5
JUNE, 1972				
14...	13	0	2	<.5
04245500 - CHITTENANGO CREEK AT BRIDGEPORT NY (LAT 43 09 18 LONG 075 58 18)				
DEC., 1971				
01...	11	10	3	<.5
MAR., 1972				
29...	0	0	1	<.5
04246000 - ONEIDA LAKE (ONEIDA R) AT BREWERTON NY (LAT 43 14 24 LONG 076 08 30)				
DEC., 1971				
01...	8	30	--	<.5
MAR., 1972				
29...	6	0	3	<.5
JUNE				
22...	8	0	2	<.5
04247080 - OSWEGO RIVER AT HINMANSVILLE NY (LAT 43 14 54 LONG 076 21 06)				
DEC., 1971				
01...	9	10	3	<.5
MAR., 1972				
29...	1	0	1	<.5
JUNE				
22...	10	0	9	<.5
04249000 - OSWEGO RIVER AT LOCK 7 AT OSWEGO NY (LAT 43 27 06 LONG 076 30 20)				
JUNE, 1972				
22...	9	0	6	<.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

04254965 - BLACK RIVER AT GREIG NY (LAT 43 40 36 LONG 075 21 39)

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV., 1971				
11...	7	40	1	<.5
JUNE, 1972				
07...	12	0	0	<.5
SEP.				
28...	7	0	0	<.5

CHEMICAL ANALYSES OF GROUND WATER IN NEW YORK

WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

STATION NUMBER	LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
LONG ISLAND											
NASSAU COUNTY											
403926073351504	N 1167	72-05-11	6.5	--	0	30	3.8	6.6	1.9	.05	15
404003073405601	N 1428	72-05-11	13	1300	490	27	3.0	145	10	.05	20
404059073254101	N 1253	72-05-12	8.3	340	4900	15	3.5	75	10	20	252
404103073372601	N 1144	72-05-11	10	3000	200	22	3.5	6.5	2.6	.10	15
404113073361501	N 8731	71-10-06	3.6	--	--	14	2.8	4.6	1.3	.75	35
404113073361502	N 8730	71-10-06	4.6	10000	1100	17	1.6	3.4	3.9	.13	36
404144073414501	N 629	72-02-16	14	990	0	30	4.6	14	6.1	.07	18
404200073315101	N 1201	72-05-15	3.9	450	0	7.0	1.4	5.9	1.0	.05	16
404201073420701	N 8829	72-02-16	9.8	--	--	17	3.1	6.7	4.0	.11	28
404210073340701	N 1615	72-05-15	16	6700	2100	31	4.7	29	7.1	1.7	25
404229073424301	N 693	72-05-18	15	30	20	35	7.3	22	3.3	.02	24
404239073255201	N 1251	72-05-12	13	630	490	14	2.0	26	12	20	127
404307073305801	N 7701	71-11-10	6.3	650	780	11	2.4	28	3.1	.07	55
		72-02-22	2.6	620	0	13	2.9	31	3.4	.02	18
		72-04-17	3.9	1400	0	8.5	2.0	43	2.3	.04	36
404308073305703	N 7699	72-02-22	1.1	--	--	4.5	1.1	32	1.9	.03	12
404310073305702	N 7696	72-02-22	2.6	--	--	13	2.9	31	3.4	.02	18
		72-06-12	15	3000	1400	23	2.9	68	6.3	1.1	92
404347073260701	N 1249	72-05-12	14	2400	680	14	2.8	18	3.8	.70	2
404353073291201	N 3876	71-12-07	6.8	--	--	3.1	1.1	14	.7	.00	3
404536073320001	N 8602	72-05-16	12	1200	50	31	6.1	24	5.5	1.7	46
QUEENS COUNTY											
404254073520001	Q 3036	72-09-12	12	6400	150	6.8	2.9	27	2.3	1.1	84
404507073552001	Q 2721	72-09-28	14	170	140	83	22	16	6.2	.01	100
SUFFOLK COUNTY											
404305073161401	S 42762	72-04-04	6.4	250	0	.2	.2	3.3	.6	.10	5
404739072565501	S 42499	72-03-14	10	60	0	2.3	1.2	4.1	.4	.02	12
404920073142801	S 44774	72-09-15	11	40	0	3.5	1.3	4.0	.4	.12	20
405046073161501	S 36791	72-02-02	10	10	0	3.2	1.5	4.1	.5	.01	20
405113073260901	S 43001	72-09-07	8.5	30	0	4.0	1.4	4.5	.5	.07	10
405119073123700	S 42270	72-02-11	7.5	80	0	1.7	.7	3.6	.6	.00	9
405236073170901	S 40333	72-09-14	11	--	--	8.3	2.3	5.6	1.0	.09	40
405303073015201	S 37269	72-06-09	15	260	520	11	5.4	58	8.4	3.0	126

CHEMICAL ANALYSES OF GROUND WATER IN NEW YORK

WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
LONG ISLAND												
NASSAU COUNTY												
54	13	.0	.00	.006	5.6	.031	149	91	78	241	6.2	.05
41	250	.1	.20	.005	4.7	.010	520	80	63	1000	6.0	.08
28	54	.0	2.0	.005	.02	.033	344	52	0	653	6.9	1.9
57	9.0	.1	.93	.007	2.0	.18	130	69	57	203	6.6	.03
28	4.0	.4	--	.000	.00	--	77	46	18	139	6.5	.03
26	3.5	.3	.27	.000	.00	.020	89	49	20	132	6.6	.02
54	26	.0	.00	.006	9.3	.010	199	94	79	290	6.1	.10
10	8.5	.0	.00	.007	.01	.018	46	23	10	93	6.3	.03
22	14	.0	.24	.013	6.5	--	120	55	32	188	6.5	.09
53	30	.0	.49	.017	19	.095	269	97	76	420	6.0	.25
64	32	.1	.08	.009	9.2	.011	232	117	97	372	6.9	.10
39	21	.1	.88	.040	4.5	.048	236	43	0	422	6.7	.52
26	21	.1	.36	.010	1.2	.15	130	37	0	221	6.7	--
11	61	3.0	.13	.002	.70	.060	140	44	30	275	6.4	.07
19	49	.1	.32	.007	2.6	.069	158	29	0	290	6.5	.16
9.6	49	.1	.20	.002	.40	--	107	16	6	210	6.5	.06
11	61	.1	--	.000	.70	--	137	44	30	275	6.4	.07
41	68	.1	--	.010	5.5	.56	271	69	0	513	6.6	.37
33	20	.1	.08	.010	5.7	.074	133	46	45	257	4.7	.18
3.4	13	--	--	.002	.00	--	44	12	10	111	5.2	.09
45	31	2.1	.00	2.4	9.6	.002	224	103	65	444	7.0	.09
QUEENS COUNTY												
17	10	.1	--	.010	.00	--	121	29	0	194	7.0	.01
170	44	.1	.11	.000	.00	.033	405	298	216	614	7.8	.02
SUFFOLK COUNTY												
3.3	3.5	.0	.20	.002	.00	.040	20	1	0	26	5.6	.01
4.3	5.3	.1	.00	.004	.20	.010	35	11	1	48	7.8	.01
.9	4.2	.1	.20	.005	.10	.001	36	14	0	50	7.0	.01
.0	5.8	.1	--	.001	.80	.000	35	14	0	51	6.9	.02
1.0	6.5	.0	.68	.004	2.0	.005	40	16	8	60	6.6	.02
4.0	3.5	.0	.05	.000	.01	.030	26	7	0	37	6.1	.01
5.5	5.5	.1	.06	.003	.20	.007	60	30	0	92	7.5	.01
32	44	.1	.86	.100	2.8	.014	252	50	0	428	6.8	.17

CHEMICAL QUALITY OF PRECIPITATION

LONG ISLAND

AT MINEOLA, N.Y.

LOCATION.--Lat 40°44'17", long 73°38'17", Nassau County, at National Weather Service Station, Mineola 1W, on roof of U.S. Geological Survey office, at 1505 Kellum Place, in Mineola.

RECORDS AVAILABLE.--Chemical analyses; October 1965 to September 1972 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 5.0 inches in diameter which drains into a 4-liter glass receiving bottle. A glass wool filter is used to prevent large particles of debris from entering the receiving bottle. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 25 feet above ground level.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	AMMONIA AS N (MG/L)	NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
71-10-01 TO 71-11-01	5.40	.7	.29	.8	.1	.0	2.80	1.30	.17	.09	24	4.90
71-11-01 TO 71-12-01	5.40	6.9	2.20	1.6	.7	2.0	24	3.00	.30	.07	80	5.60
71-12-01 TO 72-01-03	1.99	2.3	1.00	2.0	.1	.0	7.00	3.20	.34	.20	42	5.40
72-01-03 TO 72-02-01	1.75	2.0	.77	1.3	.1	4.0	6.30	2.00	--	--	-9	5.90
72-02-01 TO 72-03-01	5.07	2.5	1.00	5.7	.1	7.0	5.40	3.90	.21	.16	40	6.70
72-03-01 TO 72-04-03	4.45	1.9	.70	1.4	.1	.0	6.00	2.70	.36	.19	36	5.10
72-04-03 TO 72-05-01	3.84	1.4	.50	.4	.0	.0	5.40	.70	.33	.16	34	4.70
72-05-01 TO 72-06-01	6.48	.7	.80	.5	.0	.0	3.70	.60	.33	.14	30	4.50
72-06-01 TO 72-07-03	5.39	.6	.20	.5	.0	.0	5.00	2.90	.33	.16	43	4.20
72-07-03 TO 72-08-01	2.00	.9	.80	.6	3.1	8.0	11	3.70	2.64	.18	44	6.50
72-08-01 TO 72-09-01	.94	2.9	1.39	2.3	.5	.0	10	2.10	--	.32	53	4.50
72-09-01 TO 72-10-02	2.25	1.9	.50	1.0	.0	1.0	7.50	.35	--	--	34	5.00

AT UPTON, N.Y.

LOCATION.--Lat 40°52'16", long 72°53'20", Suffolk County, at National Weather Service Station at Brookhaven National Laboratory weather tower about 2 miles east of main entrance, at Upton.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1972 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	AMMONIA AS N (MG/L)	NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
71-09-30 TO 71-11-02	3.20	.2	.18	1.2	.1	--	2.50	1.80	.03	.06	31	4.40
71-11-02 TO 71-11-30	7.20	.1	.20	1.5	.1	.0	1.90	2.80	.09	.06	29	4.50
71-11-30 TO 72-01-03	2.50	.4	.34	2.1	.1	.0	2.50	3.70	.12	.11	39	4.50
72-01-03 TO 72-02-02	2.10	.4	.32	1.2	.1	.0	1.00	2.00	.13	.11	38	4.60
72-02-02 TO 72-02-29	5.50	.2	.31	2.3	.1	.0	3.10	3.40	.07	.09	34	4.70
72-02-29 TO 72-03-31	5.00	.3	.20	1.4	.1	.0	4.00	2.40	.19	.10	33	4.40
72-03-31 TO 72-04-28	4.40	.4	.10	.5	.0	.0	4.50	.80	.18	.15	44	4.00
72-04-28 TO 72-05-31	5.50	.2	.10	.6	.0	.0	3.00	.90	.02	.03	20	4.50
72-05-31 TO 72-06-30	6.60	.1	.10	.5	.1	.0	3.20	.80	.14	.06	27	4.30
72-06-30 TO 72-07-31	1.00	.3	.20	.8	.2	.0	4.50	1.50	.09	.04	24	4.50
72-07-31 TO 72-08-31	1.40	1.5	.20	.4	.0	.0	5.00	.70	.04	.05	30	4.50
72-08-31 TO 72-09-29	3.00	.2	.21	1.1	.0	.0	2.20	1.90	.00	.04	22	4.75

CHEMICAL QUALITY OF PRECIPITATION

HUDSON RIVER BASIN

AT ROCK HILL, N.Y.

LOCATION.--Lat 41°37'25", long 74°31'17", Sullivan County, on North Shore Road, just north of Wanaksink Lake, 0.9 mile east of Rock Hill, and 3.5 miles northwest of National Weather Service Station Rock Hill 3SW and 6.5 miles southeast of Monticello.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1972 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	AMMONIA AS N (MG/L)	NITRATE AS N (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
71-11-03 TO 71-12-05	4.88	.2	.07	.3	.3	.0	3.70	.70	.11	.09	27	4.30
71-12-05 TO 71-12-31	3.46	.3	.09	.2	.1	.0	3.80	.50	.12	.12	35	4.40
71-12-31 TO 72-02-08	3.60	.9	.21	.5	.2	.0	4.90	.60	.06	.17	33	4.30
72-02-08 TO 72-03-02	3.41	.5	.20	.6	.1	.0	2.00	.90	.06	.12	22	4.70
72-03-02 TO 72-04-03	5.04	.1	.10	.2	.1	.0	3.00	.40	.20	.14	32	4.20
72-04-03 TO 72-05-02	3.99	.6	.10	.2	.0	.0	3.80	.00	.12	.14	36	4.10
72-05-02 TO 72-06-02	8.05	.3	.10	.3	.5	2.0	3.50	.30	.04	.00	31	4.80
72-06-02 TO 72-07-02	9.57	.2	.10	.2	.3	.0	3.00	.20	.05	.06	24	4.40
72-07-02 TO 72-08-01	2.57	.4	1.00	.1	.2	.0	5.20	.30	.04	.03	30	4.35
72-08-01 TO 72-09-02	1.82	.5	.10	.2	.2	.0	6.80	.50	.04	.15	62	3.95
72-09-02 TO 72-10-04	1.79	.5	.10	.4	.1	.0	5.70	.50	.09	.10	48	4.25

NEAR ALBANY, N.Y.

LOCATION.--Lat 42°44'35", long 73°48'30", Albany County, at National Weather Service Station at Albany Municipal Airport, 0.5 mile north of new State Highway 155.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1972 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	AMMONIA AS N (MG/L)	NITRATE AS N (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
71-09-30 TO 71-11-01	2.09	2.0	.19	.2	.1	2.0	4.80	2.40	.01	.02	12	5.50
71-11-01 TO 71-12-01	3.78	1.7	.24	.3	.1	.0	4.50	.10	.25	.14	26	4.90
71-12-01 TO 71-12-31	3.09	4.9	.45	.5	.1	4.0	8.70	1.30	.05	.16	36	6.20
71-12-31 TO 72-01-31	1.21	4.5	.36	1.4	.2	6.0	6.90	1.90	.17	.18	40	6.70
72-01-31 TO 72-02-29	3.04	3.9	.33	2.5	.1	7.0	5.70	3.70	.05	.17	40	6.70
72-04-01 TO 72-04-30	3.63	3.6	.30	1.6	.1	.0	52	.60	.44	.19	335	3.00
72-04-30 TO 72-06-30	12 82	1.6	.20	.2	.0	.0	5.00	.30	.05	.08	23	4.70
72-06-30 TO 72-08-01	3.10	1.8	.20	.1	.0	.0	5.00	.40	.02	.05	19	5.15
72-08-01 TO 72-09-03	1.48	4.2	.40	.2	.0	.0	9.50	1.00	.02	.14	42	4.70
72-09-03 TO 72-10-03	1.99	2.4	.21	.2	.0	1.5	5.30	.50	.02	.00	20	5.70

HUDSON RIVER BASIN

AT HINCKLEY, N.Y.

LOCATION.--Lat 43°18'35", long 75°06'35", Oneida County, at National Weather Service Station at Hinckley Dam on West Canada Creek on Cody Road in Hinckley.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1972 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	AMMONIA AS N (MG/L)	NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
71-09-30 TO 71-10-31	2.48	1.4	.16	.3	.1	2.0	2.90	1.00	.09	.06	15	5.70
71-10-31 TO 71-11-30	3.57	.5	.15	.1	.0	.0	2.50	.10	.22	.14	26	4.50
71-11-30 TO 71-12-31	4.12	.6	.12	.4	.3	.0	5.80	.70	.51	.26	56	4.30
71-12-31 TO 72-01-31	3.40	.4	.09	.2	.0	.0	2.50	.00	.26	.13	28	4.50
72-01-31 TO 72-02-29	4.19	1.2	.20	.4	.1	.0	4.20	.00	.32	.25	32	4.60
72-02-29 TO 72-03-31	6.76	.4	.10	.1	.1	.0	3.90	.00	.18	.19	39	4.20
72-03-31 TO 72-04-30	3.08	.7	.10	.2	.0	.0	3.50	.00	.04	.12	27	4.30
72-04-30 TO 72-06-01	7.31	.7	.10	.2	.0	.0	4.50	.30	.08	.08	26	4.40
72-06-01 TO 72-07-01	9.02	.3	.10	.1	.0	.0	3.30	.10	.09	.03	22	4.40
72-07-01 TO 72-08-01	4.05	.8	.20	.1	.0	.0	6.00	.20	.03	.03	36	4.35
72-08-01 TO 72-09-01	5.10	.6	.15	.1	.0	.0	6.40	.20	.00	.00	43	4.45
72-09-01 TO 72-09-30	3.19	1.7	.28	.2	.4	.5	5.00	.50	.01	.01	19	5.50

SUSQUEHANNA RIVER BASIN

NEAR ATHENS, PA.

LOCATION.--Lat 41°55'31", long 76°31'35", Bradford County, at National Weather Service Station, Milan 1N, 300 feet west of U.S. Highways 220 and 309, 0.6 mile west of the mouth of the Chemung River, 2.0 miles south of Athens, and 5.1 miles south of the New York-Pennsylvania state line.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1972 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	AMMONIA AS N (MG/L)	NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
71-10-02 TO 71-11-02	2.00	.2	.04	.4	.0	.0	3.00	.00	.03	.00	19	4.60
71-11-02 TO 71-12-01	2.76	.5	.09	.8	.4	.0	5.10	.00	.65	.20	38	4.40
71-12-01 TO 71-12-31	2.88	.3	.02	.1	.0	.0	5.50	.80	.65	.08	32	4.50
71-12-31 TO 72-02-02	1.02	1.1	.20	2.4	5.3	.0	9.20	6.20	2.34	.29	41	5.00
72-02-02 TO 72-03-03	2.39	.9	.10	.6	.4	.0	6.90	1.30	1.19	.23	38	4.80
72-04-01 TO 72-05-04	3.26	1.2	.20	.5	.0	.0	7.60	.50	.31	.24	48	4.20
72-05-04 TO 72-05-31	2.37	.8	.10	.2	.1	.0	6.30	.50	.02	.05	50	4.00
72-05-31 TO 72-06-30	9.50	.2	.00	.1	.0	.0	3.80	.30	.09	.02	17	4.50
72-06-30 TO 72-08-01	2.80	.7	.20	.1	.2	.0	9.50	.50	.16	.14	70	4.10
72-08-01 TO 72-09-02	1.20	1.1	.15	.1	.2	.0	12	.60	.13	.20	95	3.70
72-09-02 TO 72-10-01	.97	1.1	.14	.3	.2	.0	7.50	.40	.02	.00	44	4.25

ALLEGHENY RIVER BASIN

AT ALLEGANY STATE PARK, N.Y.

LOCATION.--Lat 42°06'00", long 78°45'00", Cattaraugus County, at National Weather Service Station in Allegany State Park, 100 feet west of Park Administration Building, 300 feet west of Park Highway 1 and 6.0 miles south of Salamanca.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1972 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	AMMONIA AS N (MG/L)	NITRATE AS N (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
71-10-01 TO 71-11-01	2.31	1.7	.54	4.6	.7	12	5.70	1.80	.12	.10	39	6.50
71-11-01 TO 71-12-01	3.81	1.0	.22	7.4	1.1	10	7.70	3.00	.40	.19	52	6.60
71-12-01 TO 72-01-01	5.14	1.0	.21	.7	.6	.0	7.60	1.50	.54	.16	47	4.50
72-02-01 TO 72-02-29	3.78	1.9	.41	1.2	.6	.0	13	1.30	.62	.47	97	4.00
72-03-01 TO 72-04-01	3.55	6.6	1.00	2.1	.7	.0	31	2.50	1.23	.85	178	3.90
72-04-01 TO 72-05-01	3.40	15	--	--	--	.0	60	10	4.81	1.62	236	4.30
72-05-01 TO 72-06-01	4.90	1.0	.20	.4	.3	.0	7.30	.80	.31	.21	55	4.10
72-06-01 TO 72-07-01	8.86	.2	.10	.2	.0	.0	2.10	.10	.05	.03	17	4.50
72-07-01 TO 72-08-01	4.32	.9	.20	.6	.2	.0	11	.70	.03	.18	75	3.90
72-08-01 TO 72-09-01	2.91	.8	.91	3.0	1.3	7.0	14	1.00	2.95	.14	54	6.20

LAKE ONTARIO BASIN

AT MAYS POINT, N.Y.

LOCATION.--Lat 42°59'55", long 76°45'45", Wayne County, at National Weather Service Station, Mays Point (Lock 25), at Erie (Barge) Canal and State Highway 89 and 6.2 miles south of Savannah.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1972 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	AMMONIA AS N (MG/L)	NITRATE AS N (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
71-10-01 TO 71-11-01	1.44	1.3	.25	.2	.0	.0	3.80	.90	.11	.00	15	5.40
71-11-01 TO 71-11-30	2.49	1.0	.22	.2	.2	.0	2.90	.10	.20	.14	26	4.70
71-11-30 TO 71-12-31	3.73	1.0	.14	.2	.1	.0	3.90	.50	.24	.14	27	4.60
71-12-31 TO 72-01-31	1.09	2.2	.42	4.8	2.7	8.0	11	7.70	1.75	.22	60	6.20
72-01-31 TO 72-02-29	2.37	2.1	.23	.8	.1	.0	5.00	.70	.19	.26	35	4.70
72-02-29 TO 72-03-31	1.86	2.1	.30	.5	.1	.0	6.20	.80	.20	.28	44	4.20
72-03-31 TO 72-05-01	1.75	1.7	.20	.3	.0	.0	5.30	.30	.19	.23	40	4.25
72-05-01 TO 72-05-31	4.11	1.5	.20	.4	.3	.0	6.60	.50	.09	.14	38	4.20
72-05-31 TO 72-07-02	8.45	.5	.10	.1	.0	.0	4.00	.30	.02	.03	26	4.30
72-07-02 TO 72-07-31	3.38	.8	.20	.1	.0	.0	6.70	.20	.05	.08	47	4.10
72-07-31 TO 72-08-31	2.73	1.5	.21	.2	.0	.0	8.90	.60	.01	.15	66	4.10
72-08-31 TO 72-10-30	2.75	1.3	.20	.3	.1	.0	4.80	.30	.19	.12	37	4.45

ST. LAWRENCE RIVER BASIN

NEAR CANTON, N.Y.

LOCATION.--Lat 44°34'40", long 75°06'40", St. Lawrence County, at National Weather Service Station, Canton 4SE, on the Canton State University Farm on State Highway 68, 2.5 miles southeast of U.S. Highway 11 and Canton, N.Y.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1972 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	AMMONIA AS N (MG/L)	NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
71-10-02 TO 71-12-02	2.95	1.8	.51	.2	.8	.0	7.00	.60	.04	.21	32	5.40
71-12-02 TO 72-02-10	5.74	1.9	.30	.6	.2	.0	10	.90	.07	.36	55	4.50
72-02-10 TO 72-06-05	8.83	1.0	.20	.1	.0	.0	5.00	.40	.09	.21	41	4.30
72-06-05 TO 72-07-05	3.42	.6	.20	.1	.0	3.0	4.20	.40	.09	.00	9	5.80
72-07-05 TO 72-08-10	8.03	.4	.22	.1	.0	.0	4.20	.30	.02	.00	18	4.80

Table 4.--NEW YORK STATE WATER QUALITY SURVEILLANCE STATIONS FOR WHICH WATER SAMPLES WERE ANALYZED BY AGENCIES OTHER THAN THE U.S. GEOLOGICAL SURVEY, 1972 WATER YEAR

USGS - U.S. Geological Survey
OWDC - Office of Water Data Coordination
WQS - New York State Water Quality Surveillance
EPA - Environmental Protection Agency

Identification Number USGS OWDC	Identification Number WQS EPA	Station	Latitude Longitude
01338600 68085	12 0452	Mohawk River above Whitesboro	43°08'23" 75°18'12"
01336600 68068	12 0550	Mohawk River (Canal Section) at Rome	43°11'58" 75°23'24"
01342602 61406	12 0500	Mohawk River near Utica	43°05'26" 75°09'28"
01346000 68094	12 1411	West Canada Creek at Kast Bridge	43°04'25" 74°59'24"
01342755 68083	12 0450	Mohawk River at Herkimer	43°01'01" 74°59'48"
01348002 61403	12 1310	East Canada Creek near St. Johnsville	43°00'21" 74°44'30"
01358001 67597	13 0007	Hudson River at Troy	42°45'05" 73°41'10"
01496380 68109	06 P069	Canadarago Lake near Richfield Springs	42°49'16" 75°00'41"
01502632 68108	06 0045	Susquehanna River at Bainbridge	42°17'28" 75°28'36"
01505000 68106	06 1022	Chenango River at Sherburne	42°40'43" 75°30'39"
01505580 68107	06 1021	Chenango River near Oxford	42°28'21" 75°32'44"
01509030 68105	06 2041	Tioughnioga River at Blodgett Mills	42°34'05" 76°07'18"
01513500 61438	06 0006	Susquehanna River at Vestal	42°05'31" 76°03'21"
01513831	06 0020	Susquehanna River at Owego	42°06'01" 76°15'39"
01514937 61440	06 0015	Susquehanna River at Smithboro	42°01'41" 76°23'07"
01520500 61424	05 1120	Tioga Creek at Lindley	42°01'43" 77°07'55"
01524525 68110	05 2004	Canisteo River below Hornell	42°17'58" 77°39'03"
01529552 61386	05 1080	Cohocton River at Campbell	42°13'37" 77°11'56"
01529950 68111	05 0005	Chemung River at Corning	42°08'51" 77°03'42"
01530310 61415	05 0003	Chemung River at Fitch Bridge	42°04'57" 76°52'01"
01530330	05 0002	Chemung River at Elmira	42°04'52" 76°49'15"
01531000 61439	05 0001	Chemung River at Chemung	42°00'10" 76°38'06"
03010844	02 0005	Allegheny River at Allegany	42°05'26" 78°30'09"
03010870 68790	02 0003	Allegheny River at Vandalia	42°05'38" 78°34'27"
03010958 61411	02 1036	Tunungwant Creek at Tuna Creek, Pa.	41°59'47" 78°37'21"
03011020 68119	02 0002	Allegheny River at Salamanca	42°09'24" 78°42'57"
03014500 68095	02 3061	Chadakoin River at Falconer	42°06'44" 79°14'19"
03014590	02 2013	Cassadaga Creek near Jamestown	42°05'48" 79°09'25"
03014600 68788	02 1011	Conewango Creek at Frewsburg	42°04'11" 79°09'36"
03014670 61410	02 1010	Conewango Creek near Frewsburg	42°01'23" 79°09'35"
04213378	01 1040	Canadaway Creek at Dunkirk	42°28'32" 79°21'56"
04213450 68120	01 2002	Buttermilk Creek near Springville	42°28'50" 78°40'32"
04213500 61409	01 1070	Cattaraugus Creek at Gowanda	42°28'05" 78°56'30"
04214020	01 1030	Cattaraugus Creek at Irving	42°34'12" 79°06'45"
04214240	01 1020	Eighteenmile Creek at Highland-on-the-Lake	42°42'44" 78°58'00"
04215790 68121	01 1006	Buffalo River at Ohio Street at Buffalo	42°51'42" 78°52'04"
04216060 68122	01 0004	Niagara River at Bird Island at Buffalo	42°54'53" 78°54'12"
04216080 68125	01 C005	Black Rock Canal at Buffalo	42°54'54" 78°54'10"
04216225	01 0007	Niagara River at Tonawanda Water Intake	42°57'02" 78°55'15"
04216230	01 0008	Niagara River at Tonawanda Water Treatment Plant	42°57'50" 78°55'30"
04218595 68124	01 C900	Erie (Barge) Canal near Pendleton	43°06'57" 78°44'13"
04218705 68113	04 C901	Erie (Barge) Canal at State Highway 383 at Rochester	43°07'23" 77°38'45"
04218760 68112	04 C902	Erie (Barge) Canal at West Brighton	43°06'38" 77°37'58"
04219355 68123	01 0002	Niagara River (Tonawanda Channel) at Niagara Falls	43°04'28" 79°00'19"
04219640 61408	01 0001	Lake Ontario (Niagara River) at Youngstown	43°18'10" 79°03'52"
04220284 61431	03 L0002	Lake Ontario at MCWA Intake at Rochester	43°16'45" 77°37'01"
042202841 68217	03 L001	Lake Ontario at Rigney Bluff	
04220438 61414	04 0075	Genesee River above Wellsville	42°06'40" 77°56'30"
04227000 68114	04 1008	Canaseraga Creek at Shakers Crossing	42°44'12" 77°50'28"
04227510 61418	04 0065	Genesee River at Geneseo	42°46'37" 77°50'31"
04228500 68115	04 0006	Genesee River at Avon	42°55'04" 77°45'27"
04230055 61419	04 1050	Honeoye Creek at West Rush	42°58'40" 77°41'52"
04230650 61413	04 0020	Genesee River at Ballantyne Bridge near Mortimer	43°05'31" 77°40'52"
04231500 68116	04 0004	Genesee River at State Highway 47 at Rochester	43°07'28" 77°37'56"
04232000 68117	04 0003	*Genesee River at Rochester	43°10'50" 77°37'40"
04232006 68118	04 0001	Genesee River at Charlotte Docks, at Rochester	43°13'26" 77°36'59"
04232158 61429	03 L840	Lake Ontario near Oswego	43°28'17" 76°32'59"
0423249907 68103	07 P108	Seneca Lake at Salt Point	42°24'25" 76°53'10"

*Also USGS water-temperature station data in this report.

Table 4.--NEW YORK STATE WATER QUALITY SURVEILLANCE STATIONS FOR WHICH WATER SAMPLES WERE ANALYZED BY AGENCIES OTHER THAN THE U.S. GEOLOGICAL SURVEY, 1972 WATER YEAR - continued

Identification Number		Station	Latitude Longitude
USGS OWDC	WQS EPA		
0423249988 61430	07 P106	Seneca Lake at Geneva Water Plant near Geneva	42°48'52" 76°57'24"
04232651 73653	07 1040	Seneca River at Waterloo	42°54'05" 76°51'46"
04232707 73654	07 1060 354301	Seneca River (Cayuga and Seneca Canal) at Seneca Falls	42°54'18" 76°49'34"
04232723 73655	07 P080	Seneca River (Van Cleef Lake) at Seneca Falls	42°54'54" 76°47'14"
04232730 61385	07 1090	Seneca River (Cayuga and Seneca Canal) near Seneca Falls	42°56'20" 76°45'42"
0423406011 68104	07 P113	Cayuga Lake at Myers	42°32'05" 76°32'56"
0423406084 61433	07 P111	Cayuga Lake near Caroga	42°50'49" 76°43'43"
042340613 61448	07 1130	Seneca River (Cayuga and Seneca Canal) at Free Bridge Corners	42°57'46" 76°44'17"
0423454444 61383	07 P120	Canandaigua Lake near Canadaigua	42°50'32" 77°16'42"
04235396 61382	07 P115	Owasco Lake near Auburn	42°53'56" 76°32"17"
04235730 73652	07 1150	Seneca River near Weedsport	43°04'14" 76°33'25"
04237500 54102	07 1020	*Seneca River at Baldwinsville	43°09'24" 76°19'58"
04240300 68096	07 4401	Ninemile Creek at Syracuse	43°04'50" 76°13'36"
04240500 68100	07 2400	Onondaga Lake Outlet at Long Branch	43°07'01" 76°14'44"
04240540 68101	07 1361	Seneca River at Belgium	43°10'15" 76°16'06"
04242730 68097	07 3405	Fish Creek at Fish Creek Landing	43°13'16" 75°42'06"
04243535 68098	07 3404	Oneida Creek at South Bay	43°09'51" 75°44'14"
04245500 68099	07 3403	Chittenango Creek at Bridgeport	43°09'18" 75°58'18"
04246000 68102	07 1231	Oneida Lake (Oneida River) at Brewerton	43°14'25" 76°08'28"
04247080 61446	07 0200	Oswego River at Hinmansville	43°14'54" 76°21'06"
04249000 61447	07 0180	Oswego River at Oswego	43°27'26" 76°31'06"
04254965 61455	08 0017	Black River at Greig	43°40'36" 75°21'39"

*Also USGS water-temperature station data in this report.

INDEX

Page
Abbreviations........ 2-6
Arrangement of data and identification numbers........ 7-8
Allegheny River basin, chemical analyses
    of precipitation........ 257
  miscellaneous analyses of streams in........ 222-223
  surface-water quality records........ 148-149

Batten Kill at Middle Falls........ 48-49
Beaver Kill at Cooks Falls........ 116-117
Beaver River at Moshier Falls........ 170
Beaver Swamp Brook basin, miscellaneous analyses of
    streams in........ 208-209
Black Creek at Churchville........ 156-157
Black River, above Carthage........ 171-172
  at Forestport........ 166-167
  at Huntingtonville........ 175
  at State Highway 3 at Watertown........ 176-177
  at Watertown........ 178-179
  below Carthage........ 173-174
  below Watertown........ 180-181
Blind Brook basin, miscellaneous analyses of streams in........ 208-209
Brant Lake Outlet at Brant Lake........ 35
Bronx River basin, miscellaneous analyses of streams in........ 208-209
Buffalo Creek at Gardenville........ 150-151

Carmans River at Yaphank........ 26-27
Cayadutta Creek at Fonda........ 66-67
Chemical analyses, of ground water........ 252-253
  of precipitation........ 254-258
Chemung River at Wellsburg........ 146-147
Collection and examination of data........ 9-12
Conewango Creek at Waterboro........ 148-149
Conewango Creek basin, surface-water quality records........ 148-149
Cooperation........ 1-2

Deer River at Brasher Iron Works........ 191-192
Definition of terms and abbreviations........ 2-6
Delaware River, above Lackawaxen River near Barryville........ 128-129
  at Barryville........ 130
  at Port Jervis........ 131-134
  East Branch, at Fishs Eddy........ 118-120
  near Callicoon........ 127
  West Branch, at Hale Eddy........ 124-126
    at Stilesville........ 121
Delaware River basin, miscellaneous analyses of streams in. 212-215
  surface-water quality records........ 116-135

East Branch Delaware River at Fishs Eddy........ 118-120
East Branch Sacandaga River at Griffin........ 37-38
East Meadow Brook at Freeport........ 30-31
Eighteenmile Creek near Newfane........ 152-153
Esopus Creek at Shandaken........ 90-92

Factory Brook at Homer........ 138
Fishkill Creek, at Beacon........ 104-106
  at Hopewell Junction........ 102-103
Fivemile Creek near Kanona........ 144-145
Friends Lake near Chestertown........ 34

Genesee River at Rochester........ 158-159
Glowegee Creek, at West Milton........ 52-53
  near West Milton........ 50-51
Grass River, above Massena........ 188
  below Massena Center........ 189
Ground-water chemical analyses, Long Island........ 252-253
  New York........ 252-253
Ground-water quality data, arrangement........ 8

Hackensack River near Orangeburg........ 114-115
Hackensack River basin, surface-water quality records........ 114-115
  miscellaneous analyses of streams in........ 212-213
Hoosic River, at North Petersburg........ 60-61
  near North Pownal, Vt........ 58-59
Hudson River, at Beacon........ 101
  at Bear Mountain........ 108
  at Catskill........ 88-89
  at Coeymans........ 86-87
  at Corinth........ 40-41
  at Glenmont........ 84-85
  at Glens Falls........ 44
  at Green Island........ 82-83
  at Fort Edward........ 46-47
  at Hudson Falls........ 45
  at monitor at Waterford........ 63-64
  at Piermont........ 111
  at Spier Falls........ 42-43
  at Stillwater........ 56-57
  at Verplanck........ 109-110
  at Waterford........ 62
  at Yonkers........ 112-113
  below Poughkeepsie........ 96
  near Chelsea........ 99-100
  near Poughkeepsie........ 95

Page
Hudson River basin, chemical analyses of precipitation........ 255-256
  miscellaneous analyses of streams in........ 208-213
  surface-water quality records........ 32-113
Hydrologic bench-mark station........ 90-92
  definition of........ 9

Independence River at Donnattsburg........ 168-169
Introduction........ 1
International Hydrological Decade (IHD)
    River Station........ 82-83,187
  definition of........ 9

Johnson Creek at Kuckville........ 154-155

Kayaderosseras Creek near West Milton........ 54-55

Lake Champlain, (East Bay) near Whitehall........ 196
  near Crown Point........ 198
  near Ticonderoga........ 197
  Richelieu River, at Rouses Point........ 199
Lake Erie basin, miscellaneous analyses of streams in........ 222-225
  surface-water quality records........ 150-151
Lake Ontario basin, chemical analyses of precipitation........ 257
  miscellaneous analyses of streams in........ 224-241
  surface-water quality records........ 152-181
Long Island, analyses of samples collected at
    water-quality partial-record stations........ 200-207
  chemical analyses of ground water........ 252-253
  chemical analyses of precipitation........ 254
  surface-water quality records streams on........ 24-31
Loon Lake near Chestertown........ 33

Mamaroneck River basin, miscellaneous analyses of
    streams in........ 208-209
Massapequa Creek at Massapequa........ 28-29
Mill Neck Creek at Mill Neck........ 24-25
Miscellaneous analyses of streams, Allegheny River basin........ 222-223
  Beaver Swamp Brook basin........ 208-209
  Blind Brook basin........ 208-209
  Bronx River basin........ 208-209
  Delaware River basin........ 212-215
  Hackensack River basin........ 212-213
  Hudson River basin........ 208-213
  Hutchinson River basin........ 208-209
  Mamaroneck River basin........ 208-209
  New York........ 208-252
  Susquehanna River basin........ 214-223
  St. Lawrence River basin........ 223-243
  St. Lawrence River main stem........ 224-225
  tributary to, Lake Erie........ 222-225
    Lake Ontario........ 224-241
    Niagara River........ 224-225
    St. Lawrence River........ 240-243
Miscellaneous sites, minor element analyses........ 246-252
  spectrographic analyses........ 242-243
  pesticide analyses........ 244-245
  suspended sediment........ 244
Mohawk River, at Crescent Dam........ 80-81
  at Fonda........ 68-69
  at lock 10, at Cranesville........ 74-75
  at Schenectady........ 76-77
  at Vischer Ferry Dam........ 78-79
  below Delta Dam, near Rome........ 65
Moodna Creek near New Windsor........ 107

Neversink River at Port Jervis........ 135
North Atlantic slope basins, surface-water
    quality records........ 24-147

Ohio River basin, surface-water quality records........ 148-149
Oswegatchie River, at Gouverneur........ 184-185
  at Ogdensburg........ 186
Other available data........ 12-13
Oquaga Creek near North Sanford........ 122-123
Owasco Outlet below Auburn........ 160-161
Partial-record stations, water-quality........ 200-207
Precipitation, chemical quality of, at Allegany
    State Park........ 257
  at Hinckley........ 256
  at Mays Point........ 257
  at Mineola........ 254
  at Rock Hill........ 255
  at Upton........ 254
  in Allegheny River basin........ 257
  in Hudson River basin........ 255-256
  in Lake Ontario basin........ 257
  in Long Island........ 254
  in New York........ 254-258
  in St. Lawrence River basin........ 257-258
  in Susquehanna River basin........ 256
  near Albany........ 255
  near Athens, Pa........ 256
  near Canton........ 258

Page

Precipitation quality data, arrangement.................... 8

Raquette River at Massena Springs..........................
References, selected....................................... 190
Richelieu River (Lake Champlain) at Rouses Point........... 14-15
Rondout Creek at Eddyville................................. 199
.... 94

Sacandaga River, at Hadley.................................
East Branch, at Griffin.................................... 39
St. Lawrence River, at Alexandria Bay...................... 37-38
at Cape Vincent.. 183
at Cornwall, Ontario - near Massena, N.Y................... 182
miscellaneous analyses of streams tributary to............. 187
St. Lawrence River basin, chemical analyses................ 240-243
of precipitation...
miscellaneous analyses of streams in....................... 257-258
surface-water quality records.............................. 223-243
St. Lawrence River main stem, surface-water................ 150-199
quality records..
Salmon River below Pulaski.........................182-183,187
Saranac River above Plattsburgh............................ 164-165
Schoharie Creek, at Fort Hunter............................ 193
at North Blenheim.. 72-73
Schroon Lake at Pottersville............................... 70-7
Schroon River at Riverbank................................. 32
Selected references.. 36
Seneca River at Baldwinsville.............................. 14-15
Special Networks... 162-163
Streams on Long Island, surface-water quality records...... 9
.... 24-31

Page

Streams tributary to Lake Erie,
miscellaneous analyses of..................................
Lake Ontario... 222-225
Niagara River.. 224-241
St. Lawrence River... 224-225
Streams tributary to Lake Erie,............................ 240-243
surface-water quality records..............................
Lake Ontario... 150-151
St. Lawrence River... 152-181
Surface-water quality data, arrangement............184-186,188-199
Susquehanna River, at CFJ Memorial Bridge at Johnson City.. 7
at Johnson City.. 141-142
at Unadilla.. 143
Susquehanna River basin, chemical analyses................. 136-137
of precipitation...
miscellaneous analyses of streams in....................... 256
surface-water quality records.............................. 214-223
Ticonderoga Creek at Ticonderoga........................... 136-147
Tioughnioga River, at Cortland............................. 194-195
West Branch, at Homer...................................... 140
Tropical Storm Agnes, miscellaneous analyses............... 139
Wallkill River near Rosendale.............................. 242-245
Wappinger Creek near Wappingers Falls...................... 93
Water-quality partial-records stations..................... 97-98
Water-quality records...................................... 200-207
Water-supply papers.. 24-258
West Branch Tioughnioga River at Homer..................... 13
West Branch Delaware River, at Stilesville................. 139
at Hale Eddy... 121
.... 124-126

☆U.S. GOVERNMENT PRINTING OFFICE: 1974-718-578/34-74